

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011619\
 Data File : VU029198.D
 Acq On : 16 Jan 2019 10:37
 Operator : JC/SP
 Sample : VU0116WBSD01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 9:43:36 AM

Quant Time: Jan 17 01:08:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	107535	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	176087	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	163741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	80303	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	70519	53.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.10%	
35) Dibromofluoromethane	4.88	113	60034	52.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.18%	
50) Toluene-d8	7.56	98	229013	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	
62) 4-Bromofluorobenzene	10.30	95	79637	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	20809	19.513	ug/l	99
3) Chloromethane	1.33	50	31180	17.869	ug/l	98
4) Vinyl Chloride	1.40	62	31898	20.297	ug/l	96
5) Bromomethane	1.62	94	18268	20.838	ug/l	98
6) Chloroethane	1.69	64	19250	20.564	ug/l	99
7) Trichlorofluoromethane	1.88	101	35655	20.821	ug/l	99
8) Diethyl Ether	2.10	74	17619	21.416	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.29	101	22459	19.601	ug/l	96
10) Methyl Iodide	2.41	142	24107	22.376	ug/l	99
11) Tert butyl alcohol	2.82	59	38925	115.197	ug/l	98
12) 1,1-Dichloroethene	2.28	96	21073	18.895	ug/l	95
13) Acrolein	2.19	56	20420	80.480	ug/l	100
14) Allyl chloride	2.59	41	40314	19.700	ug/l	91
15) Acrylonitrile	2.93	53	96506	116.415	ug/l	100
16) Acetone	2.32	43	90768	108.388	ug/l	98
17) Carbon Disulfide	2.48	76	68986	18.326	ug/l	100
18) Methyl Acetate	2.61	43	48389	24.851	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	84594	21.574	ug/l	99
20) Methylene Chloride	2.70	84	29360	20.649	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	25660	19.803	ug/l	96
22) Diisopropyl ether	3.57	45	90161	22.293	ug/l	96
23) Vinyl Acetate	3.52	43	365495	110.545	ug/l	100
24) 1,1-Dichloroethane	3.44	63	51738	22.160	ug/l	99
25) 2-Butanone	4.26	43	133659	118.170	ug/l	99
26) 2,2-Dichloropropane	4.22	77	42037	22.283	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	30488	21.513	ug/l	98
28) Bromochloromethane	4.55	49	22492	22.498	ug/l	96
29) Tetrahydrofuran	4.64	42	79763	116.270	ug/l	99
30) Chloroform	4.67	83	50512	22.715	ug/l	98
31) Cyclohexane	4.99	56	46990	20.662	ug/l	98
32) 1,1,1-Trichloroethane	4.91	97	40245	21.903	ug/l	97
36) 1,1-Dichloropropene	5.13	75	35677	20.270	ug/l	99
37) Ethyl Acetate	4.38	43	43881	22.713	ug/l	99
38) Carbon Tetrachloride	5.13	117	33071	22.528	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	43006	19.875	ug/l	99
40) Benzene	5.39	78	116972	21.306	ug/l	99
41) Methacrylonitrile	4.54	41	23516	22.739	ug/l	99
42) 1,2-Dichloroethane	5.40	62	37451	22.701	ug/l	97
43) Isopropyl Acetate	5.55	43	67596	22.809	ug/l	99
44) Trichloroethene	6.19	130	27797	20.434	ug/l	96
45) 1,2-Dichloropropane	6.43	63	32922	22.708	ug/l	96
46) Dibromomethane	6.56	93	20250	21.849	ug/l	99
47) Bromodichloromethane	6.75	83	38393	22.499	ug/l	100
48) Methyl methacrylate	6.62	41	33456	23.184	ug/l	99
49) 1,4-Dioxane	6.61	88	16237	474.789	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	235909	116.965	ug/l	99
52) Toluene	7.64	92	71359	21.351	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	43840	21.387	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	48420	21.860	ug/l	98
55) 1,1,2-Trichloroethane	8.06	97	30222	22.571	ug/l	98
56) Ethyl methacrylate	8.02	69	44039	21.349	ug/l	97
57) 1,3-Dichloropropane	8.24	76	51124	22.314	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.12	63	88841	97.931	ug/l	99
59) 2-Hexanone	8.36	43	185382	117.093	ug/l	98
60) Dibromochloromethane	8.48	129	28975	21.843	ug/l	98
61) 1,2-Dibromoethane	8.58	107	32274	22.225	ug/l	99
64) Tetrachloroethene	8.22	164	25269	21.423	ug/l	98
65) Chlorobenzene	9.12	112	77024	20.986	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	27181	22.820	ug/l	98
67) Ethyl Benzene	9.25	91	131010	21.380	ug/l	100
68) m/p-Xylenes	9.37	106	99446	41.767	ug/l	100
69) o-Xylene	9.78	106	47990	20.919	ug/l	99
70) Styrene	9.79	104	79016	21.010	ug/l	100
71) Bromoform	9.95	173	23751	22.395	ug/l #	98
73) Isopropylbenzene	10.16	105	126884	21.347	ug/l	100
74) N-amyl acetate	10.01	43	56793	22.174	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	52450	22.017	ug/l	97
76) 1,2,3-Trichloropropane	10.49	75	45037m	22.890	ug/l	
77) Bromobenzene	10.45	156	32029	20.678	ug/l	97
78) n-propylbenzene	10.58	91	151702	21.657	ug/l	99
79) 2-Chlorotoluene	10.66	91	91046	21.427	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	107040	21.565	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	14693m	19.259	ug/l	
82) 4-Chlorotoluene	10.77	91	102844	21.108	ug/l	98
83) tert-Butylbenzene	11.10	119	103826	21.223	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	108595	21.914	ug/l	100
85) sec-Butylbenzene	11.32	105	128874	21.782	ug/l	100
86) p-Isopropyltoluene	11.47	119	108951	21.610	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	57300	20.168	ug/l	98
88) 1,4-Dichlorobenzene	11.50	146	59906	20.427	ug/l	99
89) n-Butylbenzene	11.89	91	99101	22.023	ug/l	99
90) Hexachloroethane	12.14	117	18428	21.727	ug/l	96
91) 1,2-Dichlorobenzene	11.88	146	58983	20.611	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	10578	23.087	ug/l	96

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ClientSampleId :
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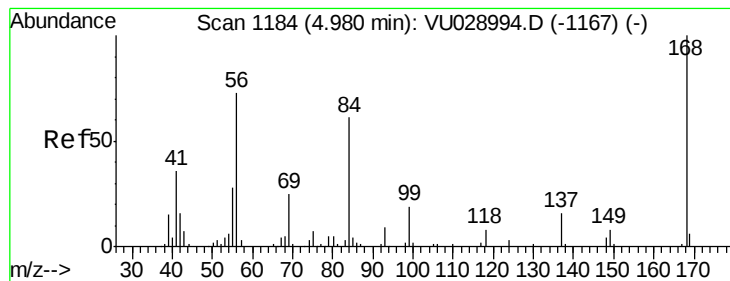
Manual Integrations
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MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	37772	20.677	ug/l	98
94) Hexachlorobutadiene	13.69	225	18840	22.548	ug/l	97
95) Naphthalene	13.74	128	121359	19.529	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	39411	21.407	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion:168 Resp: 107535

Ion Ratio Lower Upper

168 100

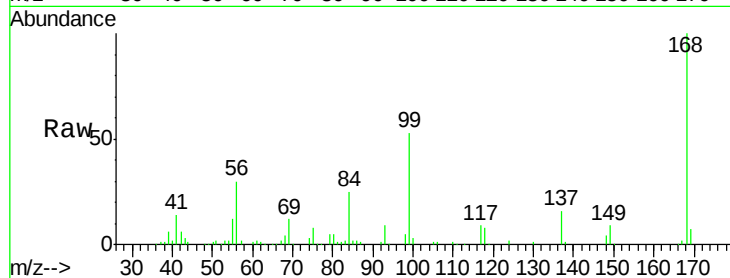
99 52.9 42.0 63.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

50000

40000

30000

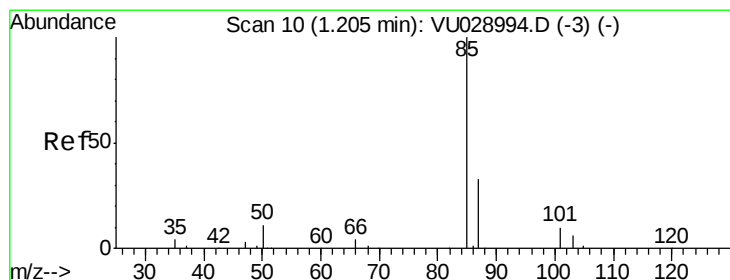
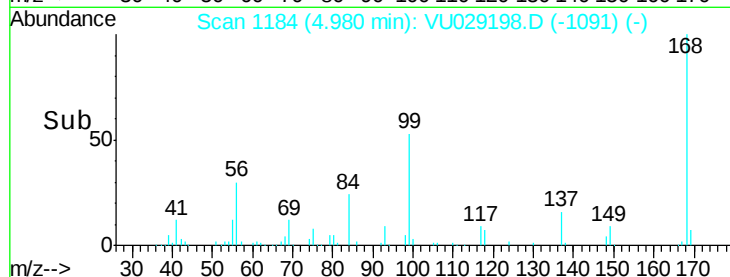
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.513 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU029198.D

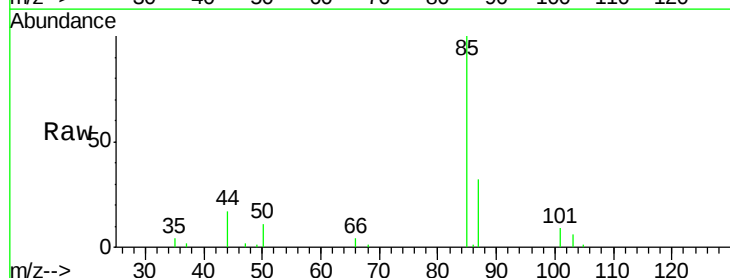
Acq: 16 Jan 2019 10:37

Tgt Ion: 85 Resp: 20809

Ion Ratio Lower Upper

85 100

87 32.1 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VU028994.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028994.D (-3) (-)

1.21

25000

20000

15000

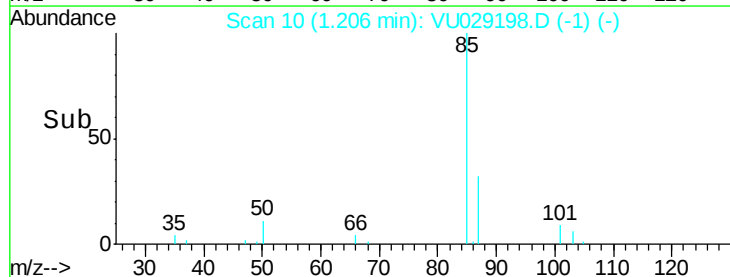
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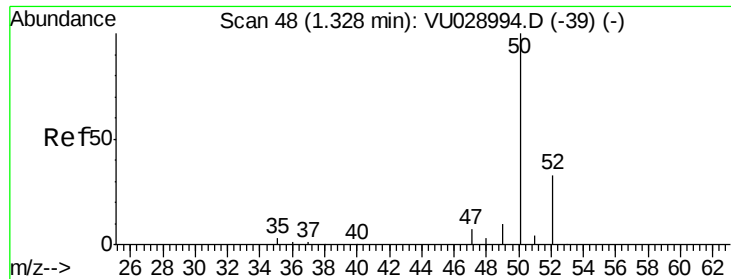
5000

0

1.20 1.21 1.22 1.23 1.24 1.25

Time-->





#3

Chloromethane

Concen: 17.869 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 50 Resp: 31180

Ion Ratio Lower Upper

50 100

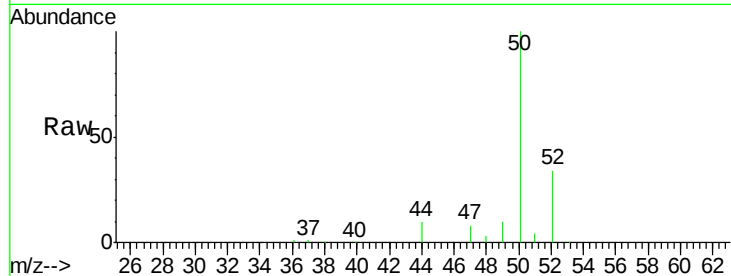
52 33.5 26.1 39.1

Manual Integrations

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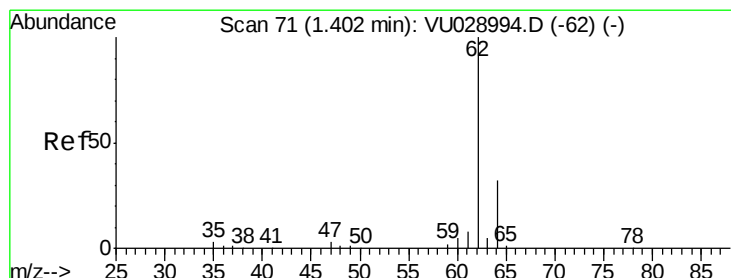
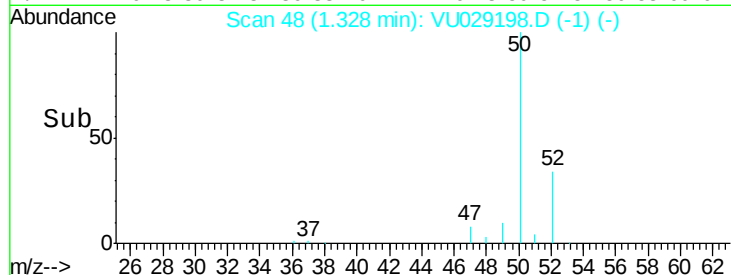
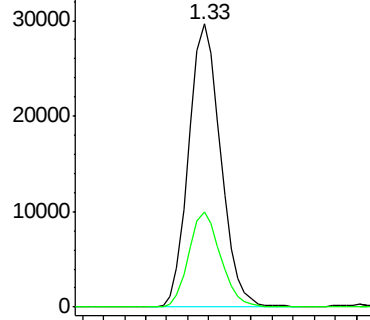
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 20.297 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029198.D

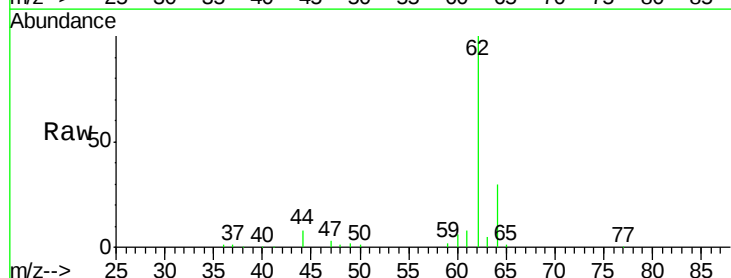
Acq: 16 Jan 2019 10:37

Tgt Ion: 62 Resp: 31898

Ion Ratio Lower Upper

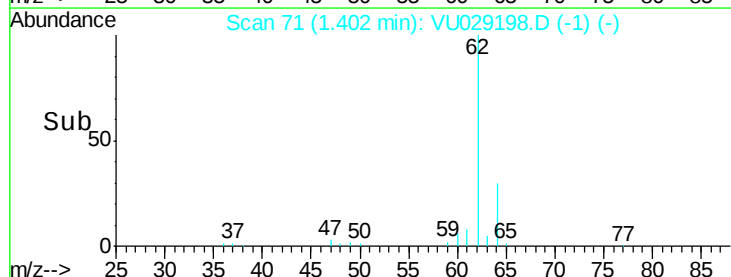
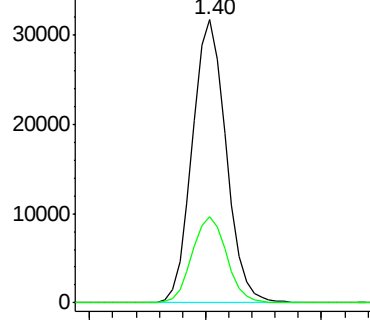
62 100

64 30.3 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 20.838 ug/l

RT: 1.62 min Scan# 138

Delta R.T. 0.01 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 94 Resp: 18268

Ion Ratio Lower Upper

94 100

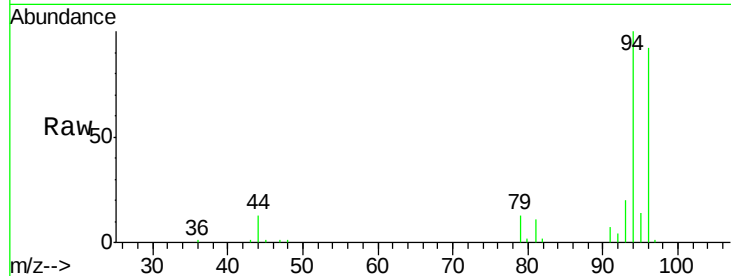
96 92.1 75.5 113.3

Manual Integrations

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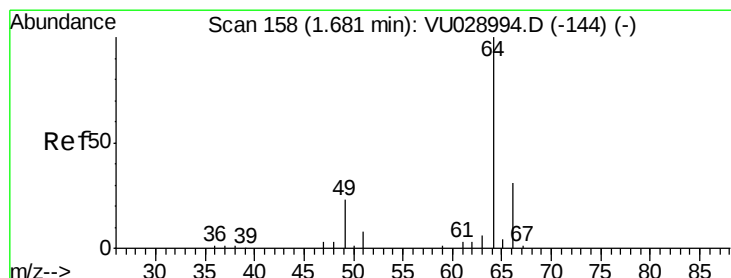
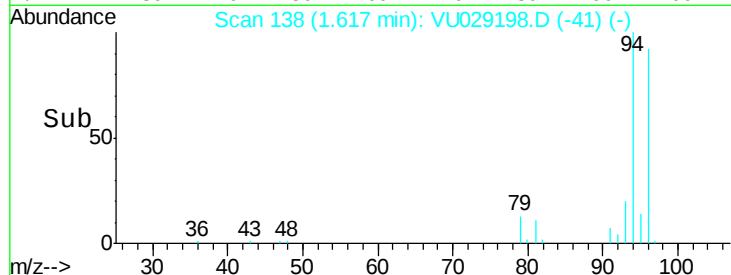
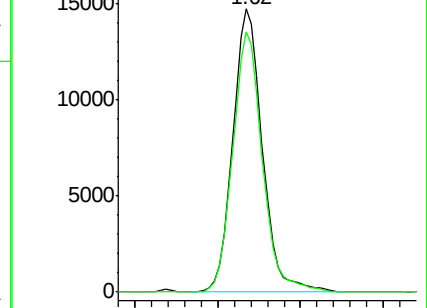
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.564 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU029198.D

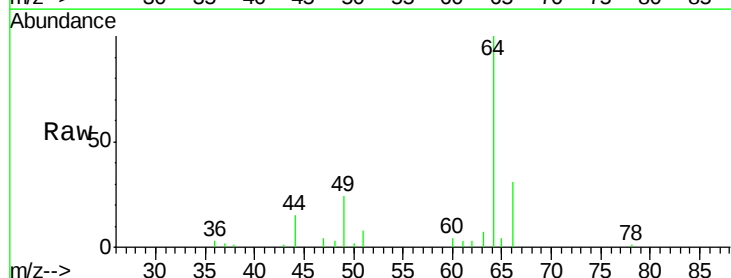
Acq: 16 Jan 2019 10:37

Tgt Ion: 64 Resp: 19250

Ion Ratio Lower Upper

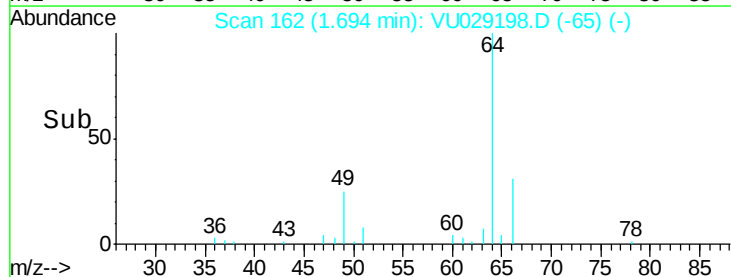
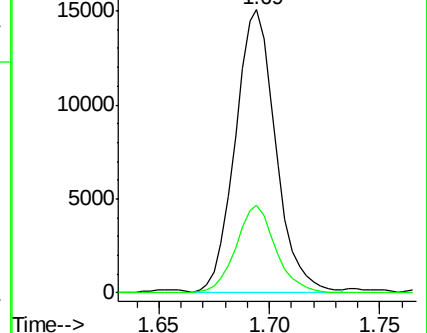
64 100

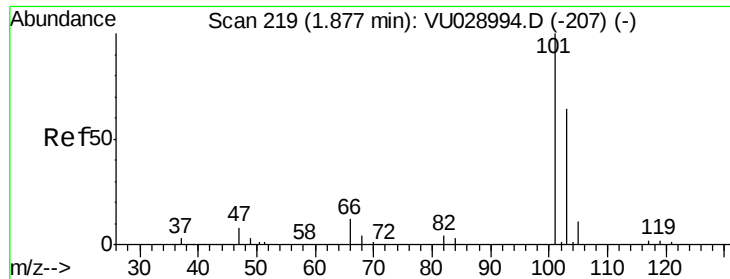
66 30.8 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

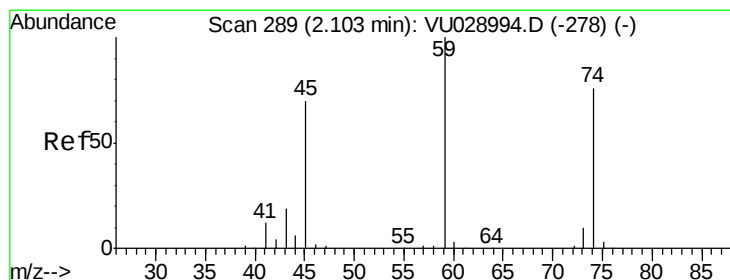
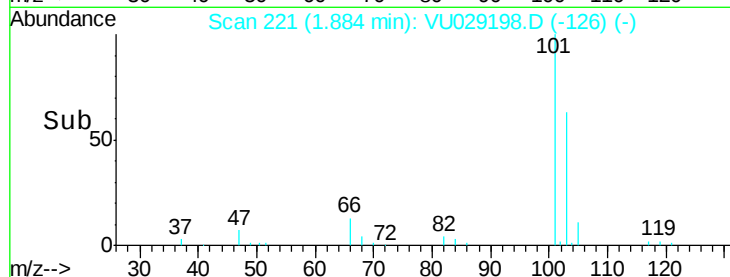
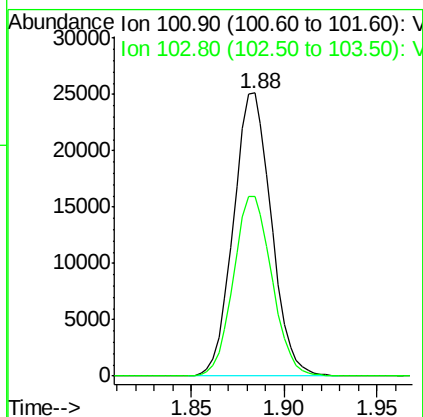
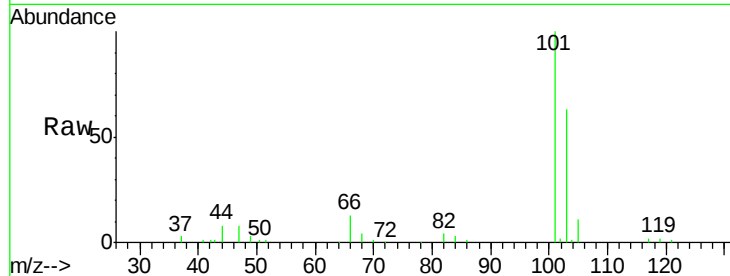
Trichlorofluoromethane
Concen: 20.821 ug/l
RT: 1.88 min Scan# 221
Delta R.T. 0.01 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion:101 Resp: 35655
Ion Ratio Lower Upper
101 100
103 63.5 51.5 77.3

Manual Integrations
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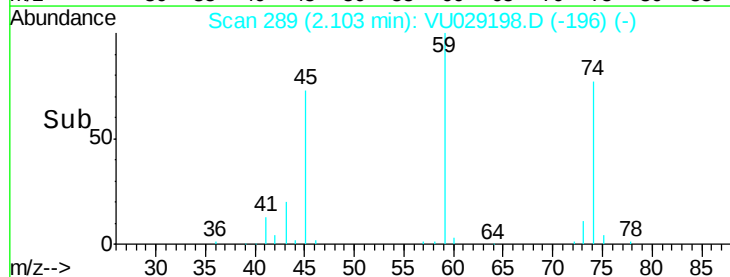
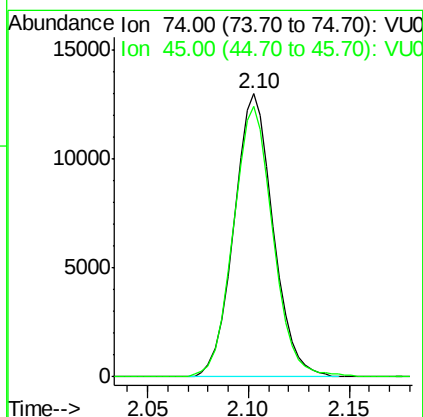
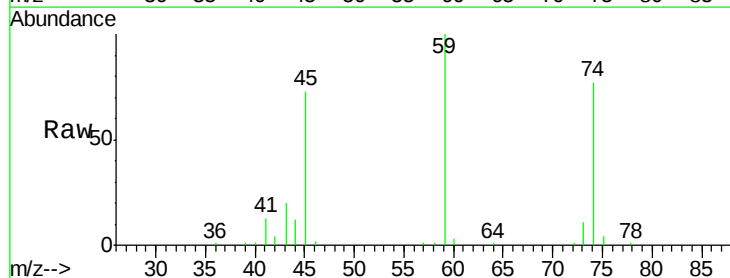
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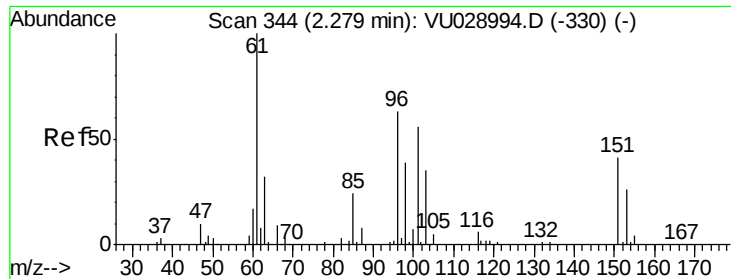


#8

Diethyl Ether
Concen: 21.416 ug/l
RT: 2.10 min Scan# 289
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion: 74 Resp: 17619
Ion Ratio Lower Upper
74 100
45 96.9 46.9 140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.601 ug/l

RT: 2.29 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

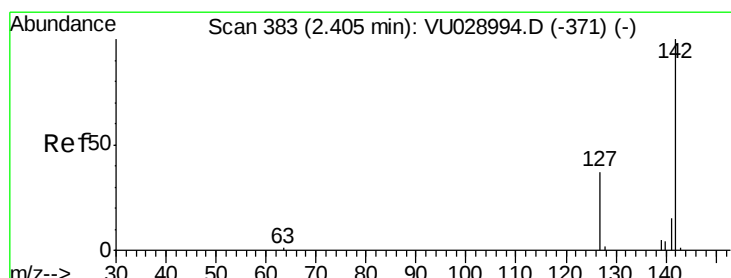
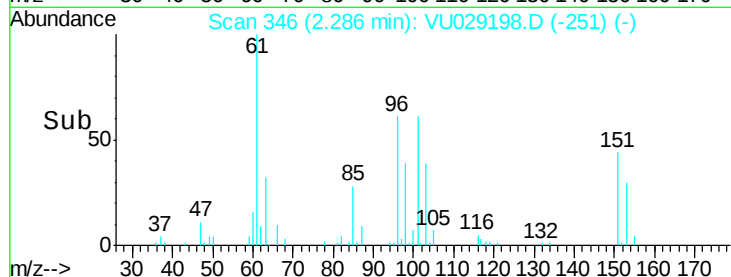
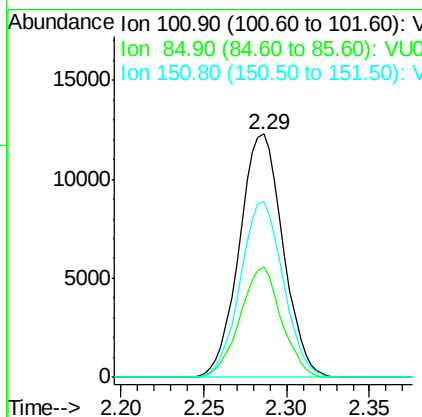
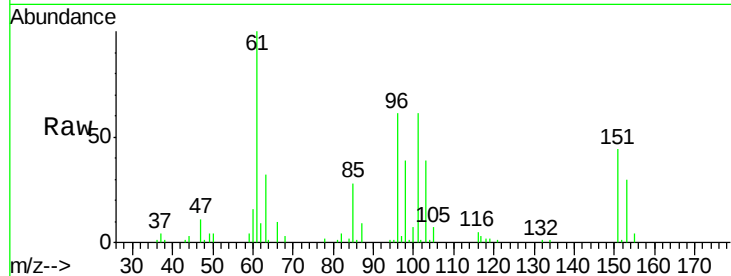
ClientSampleId :

VU0116WBSD01

Tot Ion:	101	Resp:	22459
Ion Ratio	Lower	Upper	
101	100		
85	43.0	35.1	52.7
151	71.0	60.2	90.2

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#10

Methyl Iodide

Concen: 22.376 ug/l

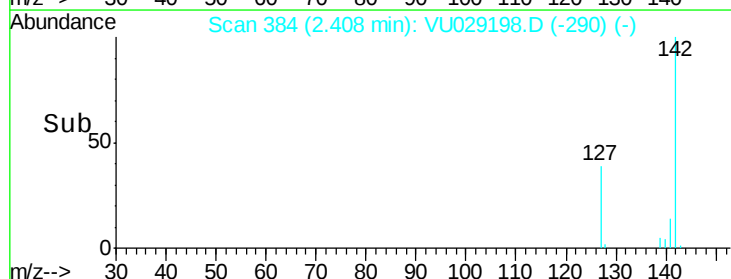
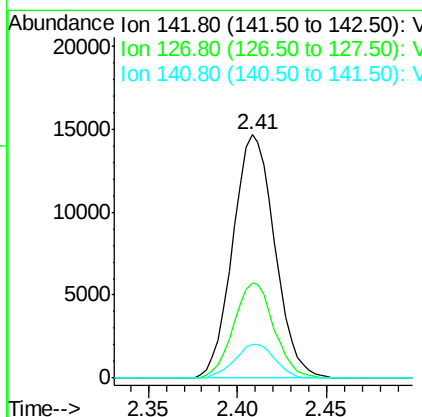
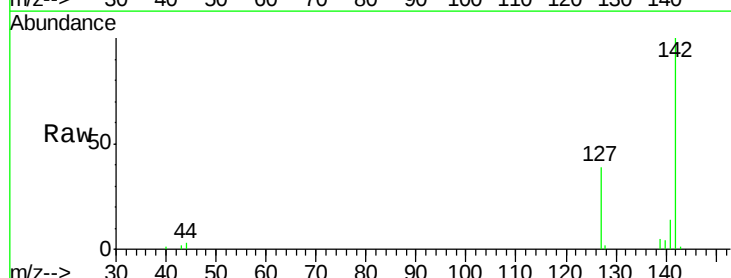
RT: 2.41 min Scan# 384

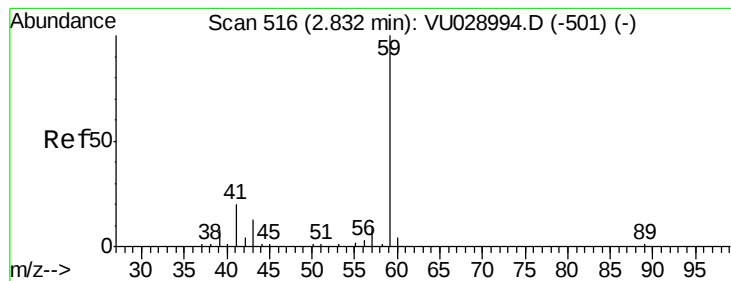
Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Tgt Ion:	142	Resp:	24107
Ion Ratio	Lower	Upper	
142	100		
127	37.6	29.8	44.6
141	13.3	11.5	17.3





#11

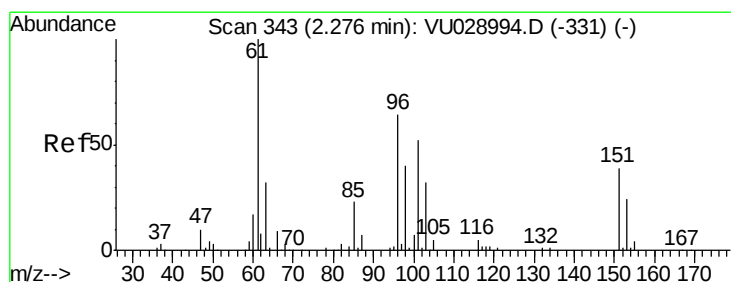
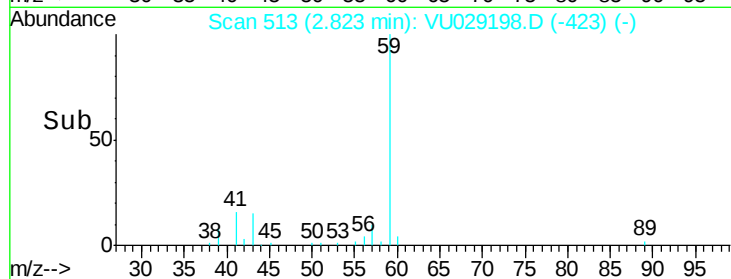
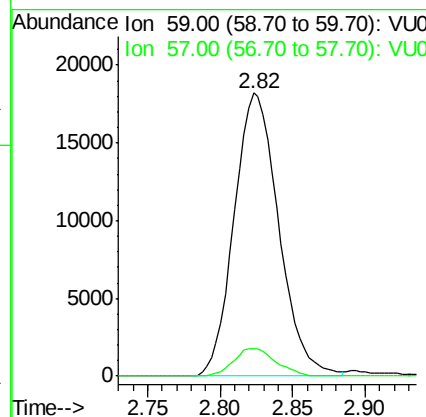
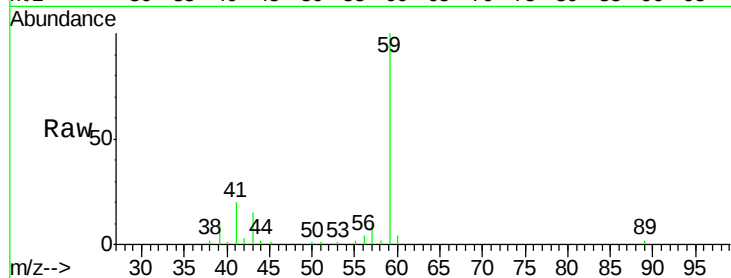
Tert butyl alcohol
 Concen: 115.197 ug/l
 RT: 2.82 min Scan# 513
 Delta R.T. -0.01 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.2	7.9	11.9

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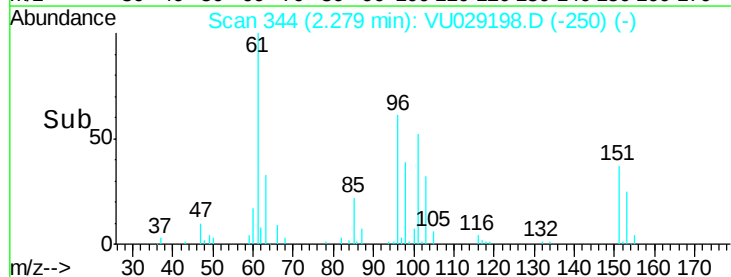
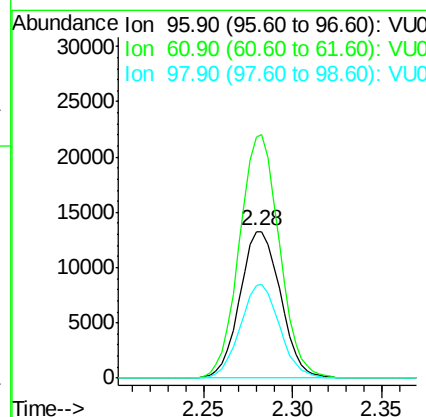
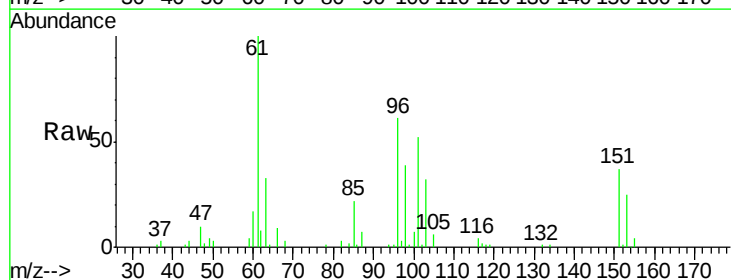
MMDadoda
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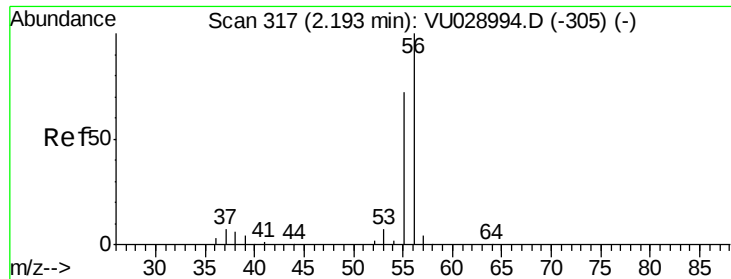


#12

1,1-Dichloroethene
 Concen: 18.895 ug/l
 RT: 2.28 min Scan# 344
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.6	125.4	188.0
98	63.4	49.7	74.5





#13

Acrolein

Concen: 80.480 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 56 Resp: 20420

Ion Ratio Lower Upper

56 100

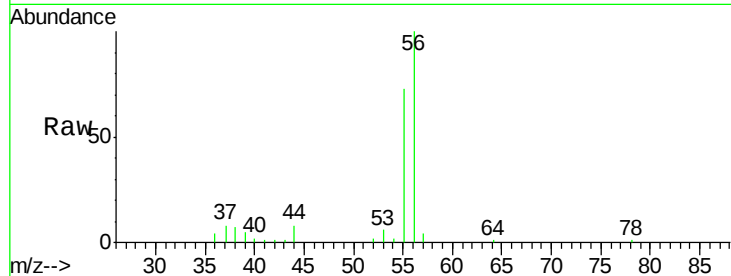
55 70.6 56.5 84.7

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

15000

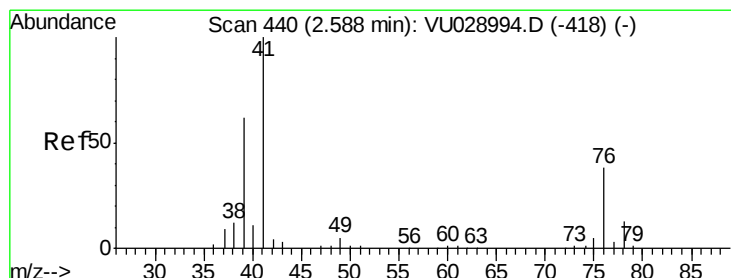
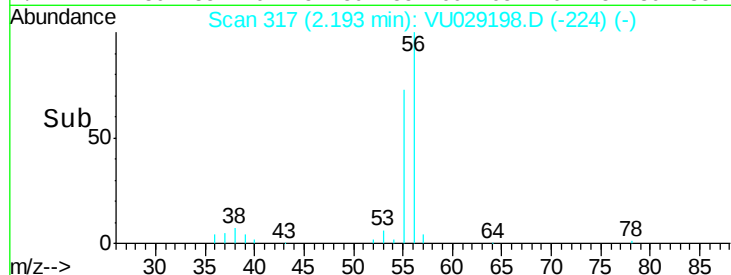
10000

5000

0

2.15 2.20 2.25

Time-->



#14

Allyl chloride

Concen: 19.700 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

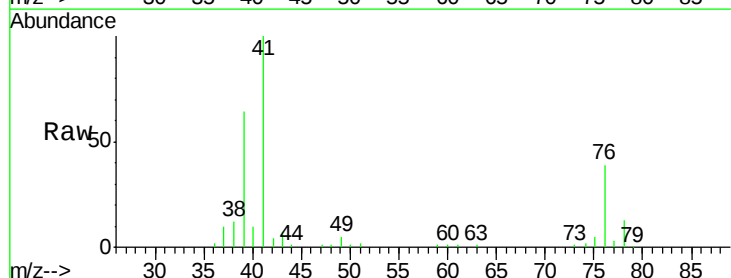
Tgt Ion: 41 Resp: 40314

Ion Ratio Lower Upper

41 100

39 64.3 45.0 67.6

76 38.3 28.1 42.1



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

30000

25000

20000

15000

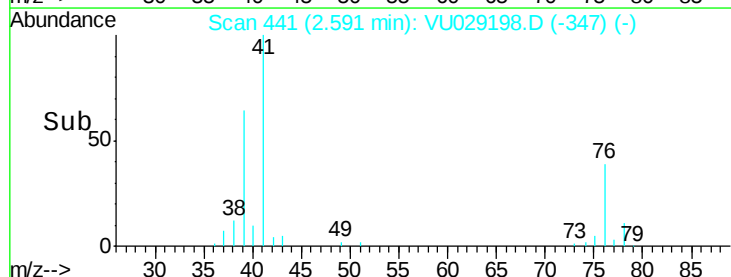
10000

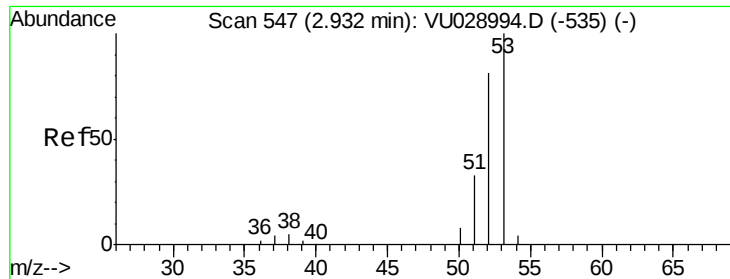
5000

0

2.55 2.60 2.65

Time-->





#15

Acrylonitrile

Concen: 116.415 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

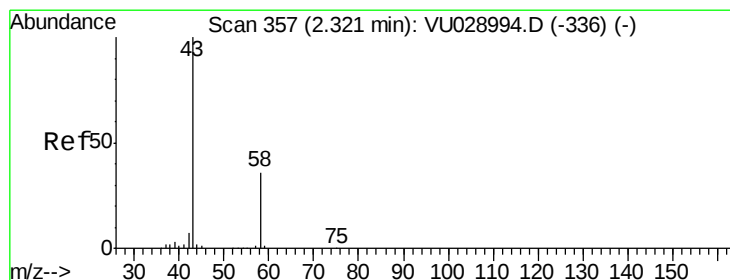
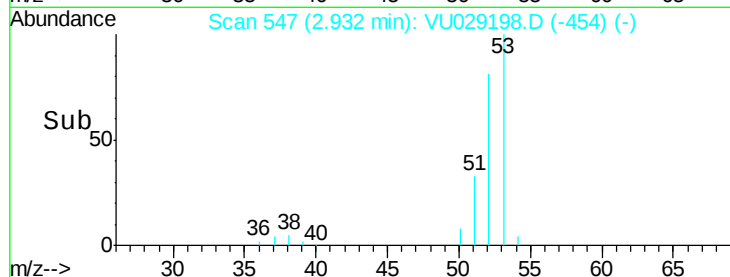
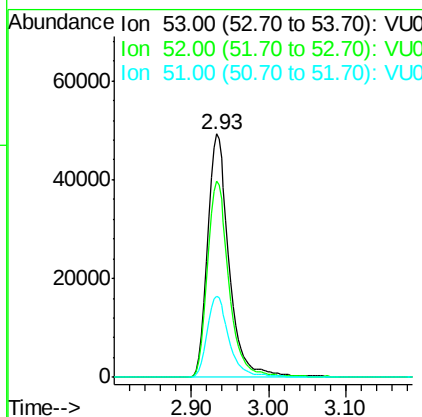
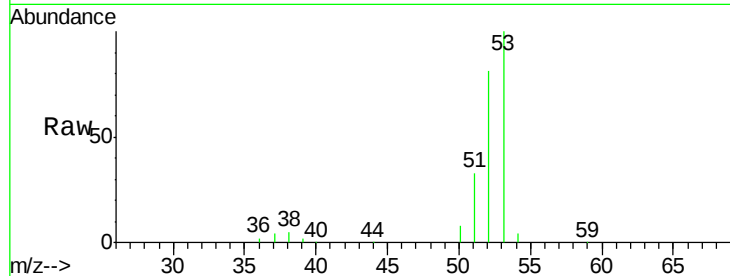
ClientSampleId :

VU0116WBSD01

Tot Ion:	53	Resp:	96506
Ion	Ratio	Lower	Upper
53	100		
52	80.4	64.8	97.2
51	34.0	27.3	40.9

Manual Integrations
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#16

Acetone

Concen: 108.388 ug/l

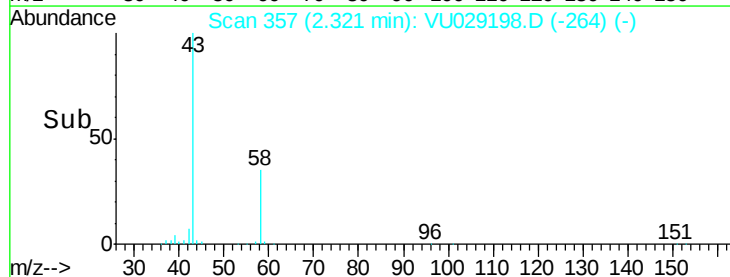
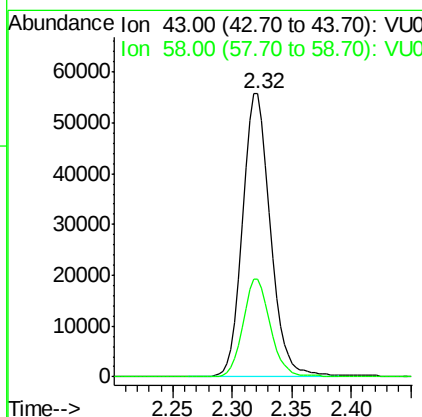
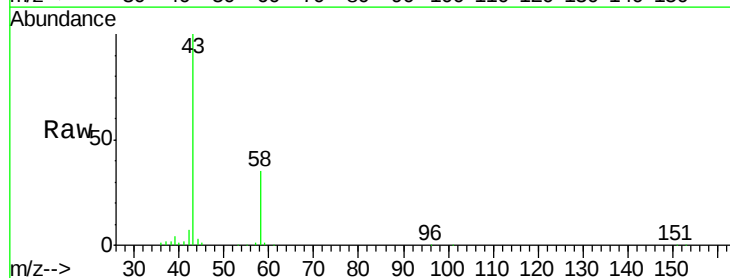
RT: 2.32 min Scan# 357

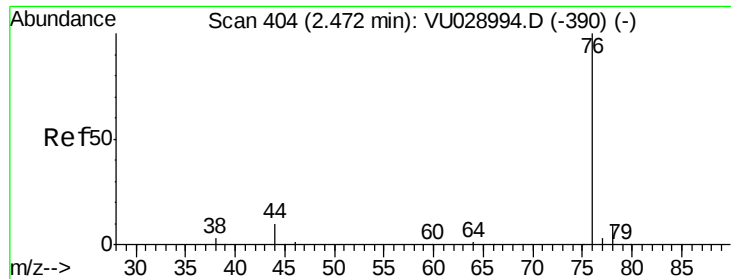
Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Tgt Ion:	43	Resp:	90768
Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.6	42.8





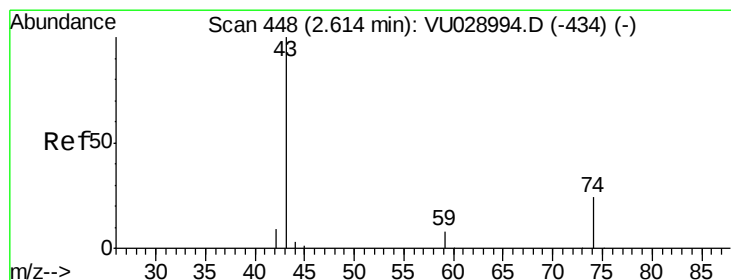
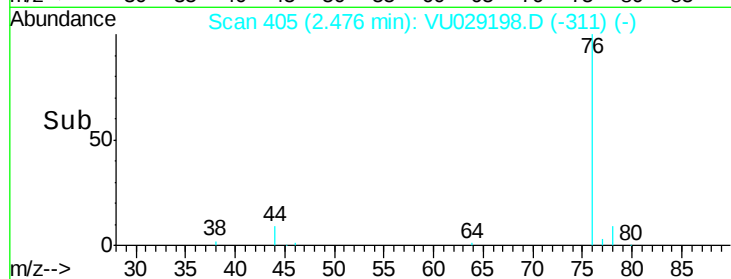
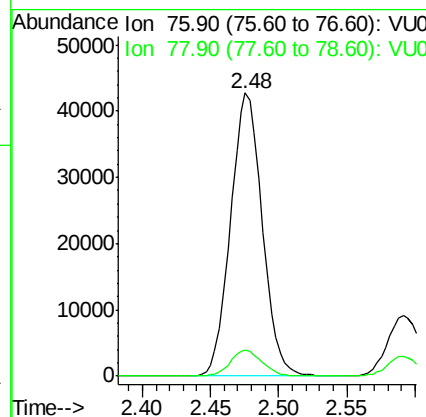
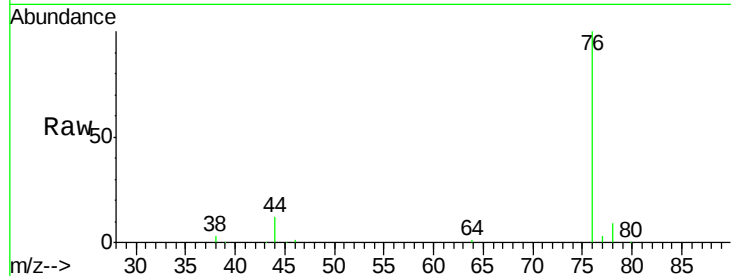
#17
Carbon Disulfide
Concen: 18.326 ug/l
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion: 76 Resp: 68986
Ion Ratio Lower Upper
76 100
78 9.2 7.2 10.8

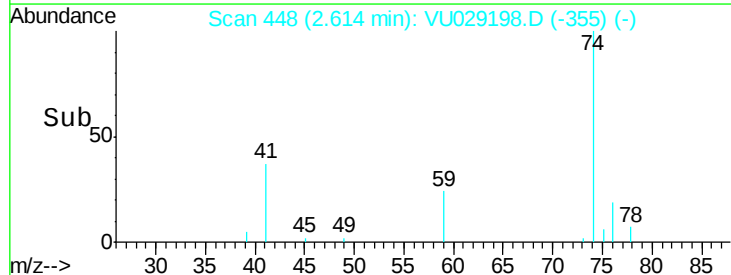
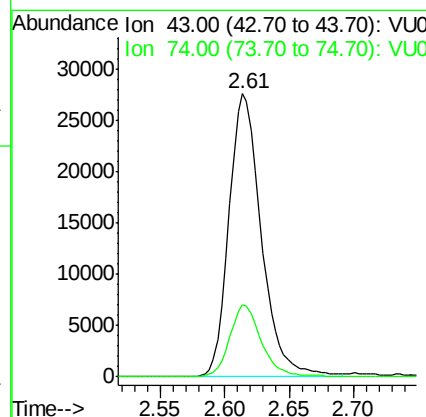
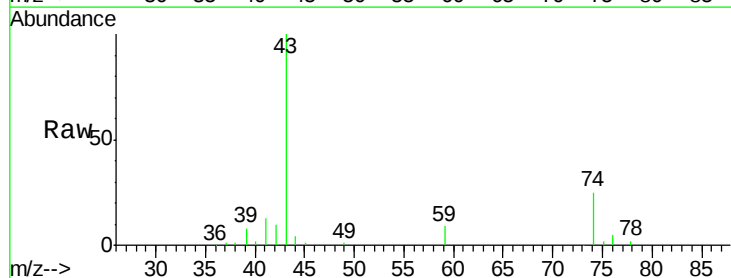
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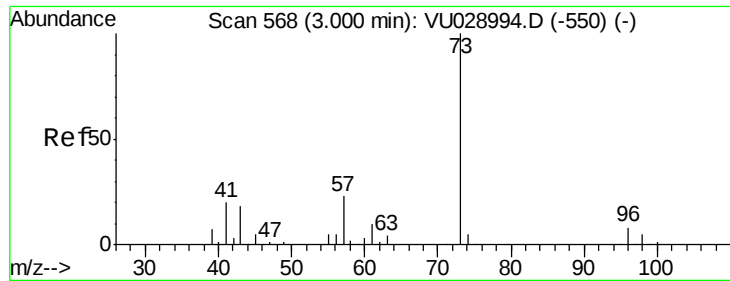
MMDadoda
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#18
Methyl Acetate
Concen: 24.851 ug/l
RT: 2.61 min Scan# 448
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion: 43 Resp: 48389
Ion Ratio Lower Upper
43 100
74 24.8 19.5 29.3





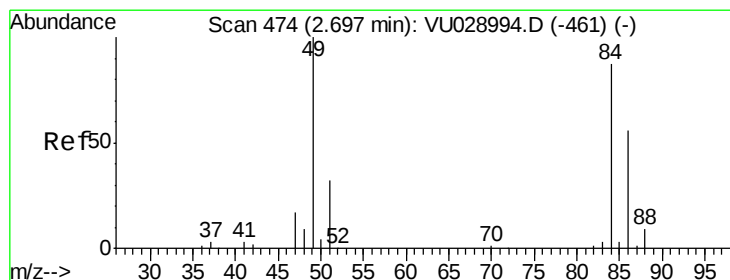
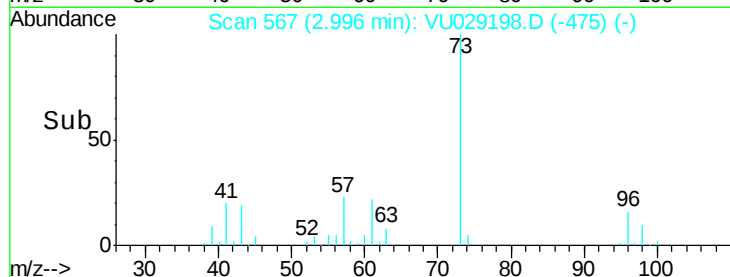
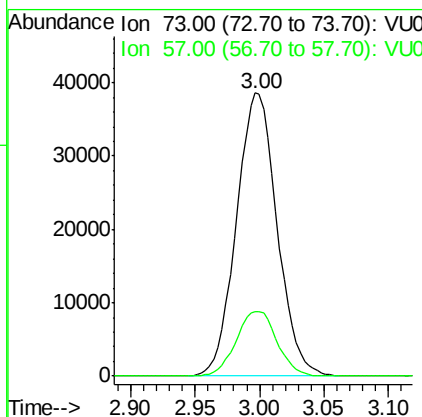
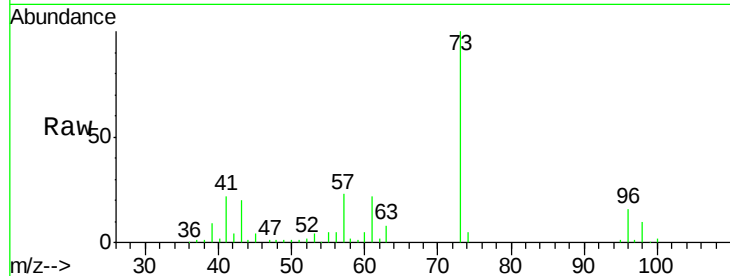
#19
Methvl tert-butvl Ether
Concen: 21.574 ug/l
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion: 73 Resp: 84594
Ion Ratio Lower Upper
73 100
57 22.8 18.6 28.0

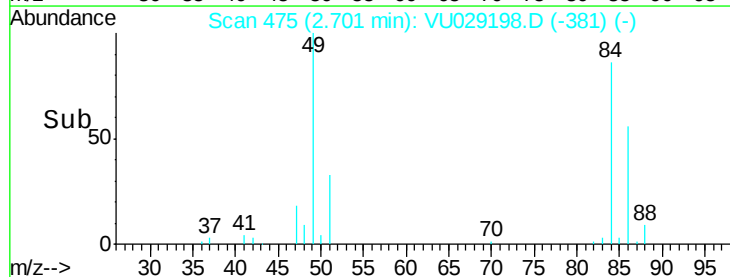
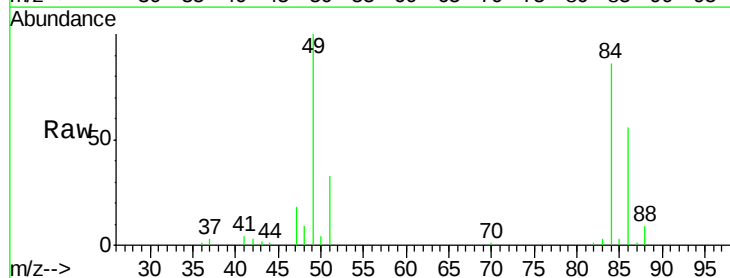
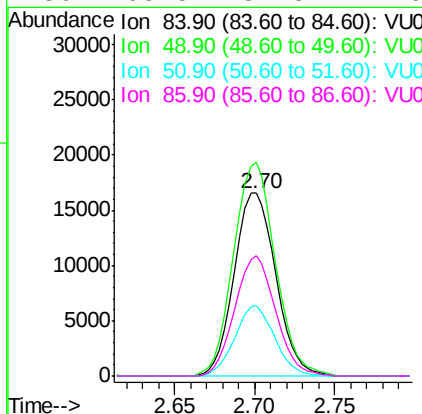
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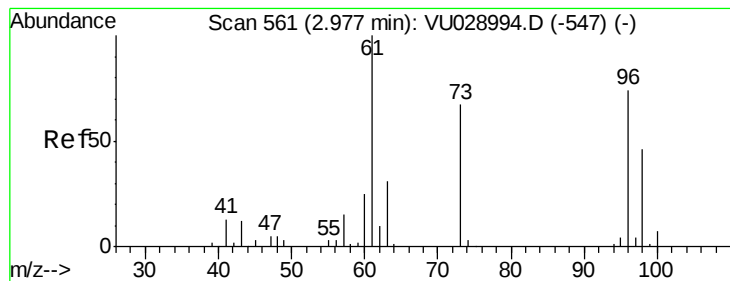
MMDadoda
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#20
Methylene Chloride
Concen: 20.649 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion: 84 Resp: 29360
Ion Ratio Lower Upper
84 100
49 116.7 91.9 137.9
51 38.3 29.2 43.8
86 65.5 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 19.803 ug/l

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampled :

VU0116WBSD01

Tot Ion: 96 Resp: 25660

Ion Ratio Lower Upper

96 100

61 140.2 107.7 161.5

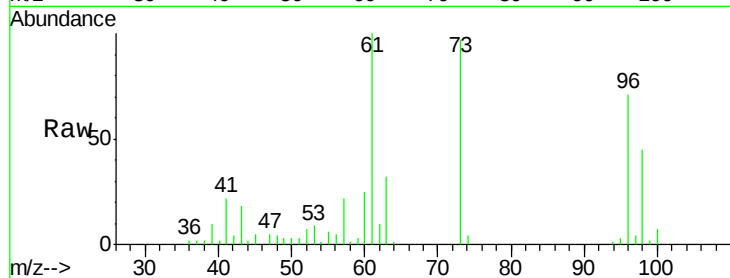
98 63.1 49.2 73.8

Manual Integrations

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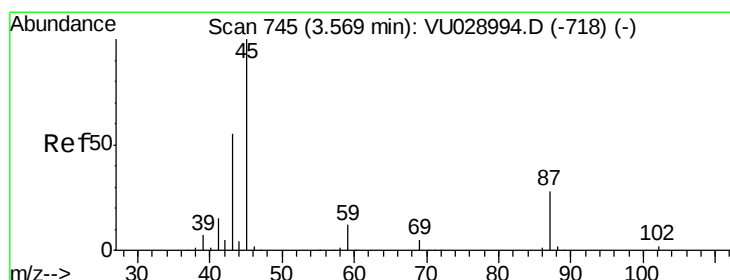
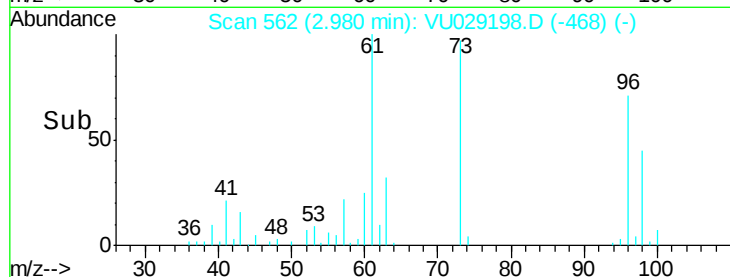
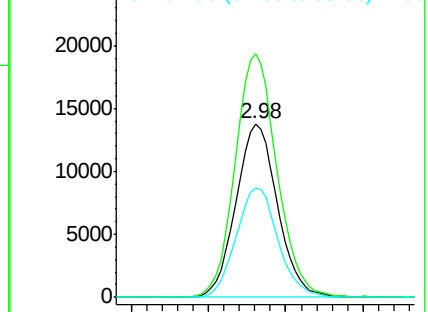


Abundance

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: 22.293 ug/l

RT: 3.57 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Tgt Ion: 45 Resp: 90161

Ion Ratio Lower Upper

45 100

43 60.6 44.7 67.1

87 28.6 22.2 33.2

59 12.1 9.8 14.8

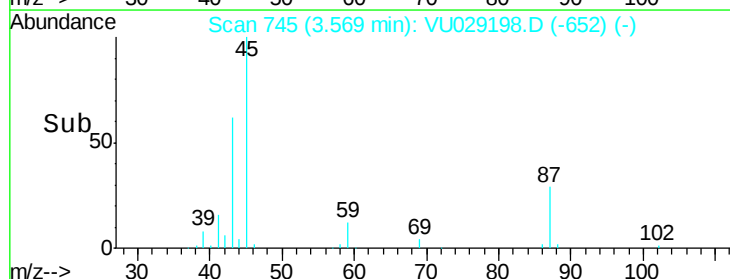
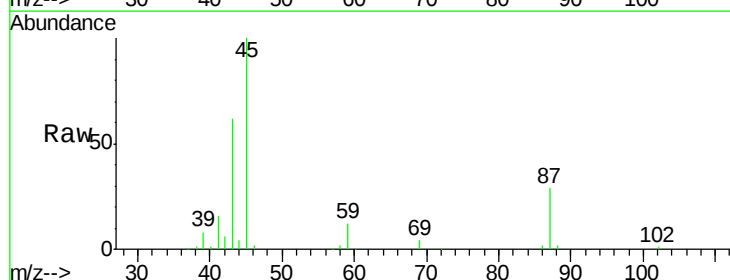
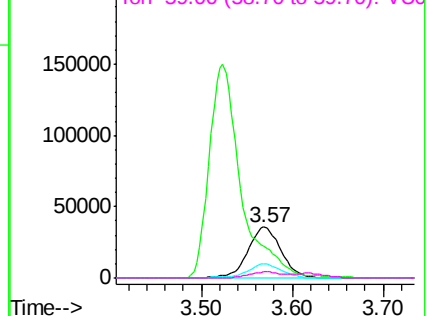
Abundance

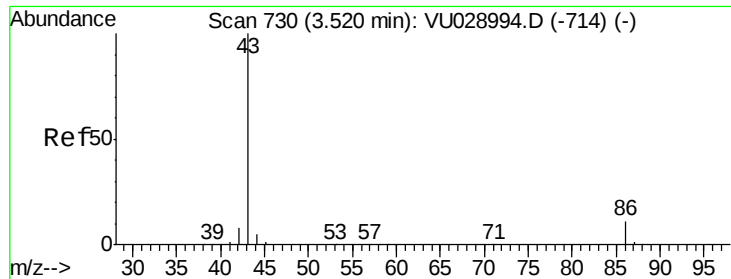
Ion 45.00 (44.70 to 45.70): VU0

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: 110.545 ug/l

RT: 3.52 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 43 Resp: 365495

Ion Ratio Lower Upper

43 100

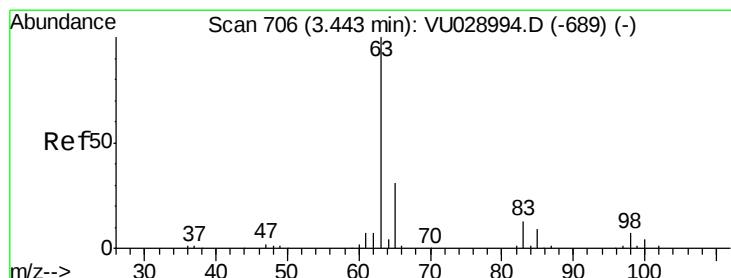
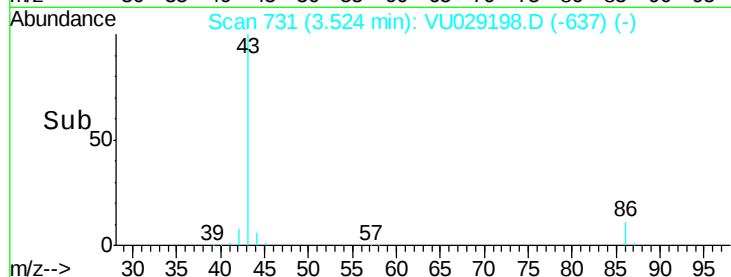
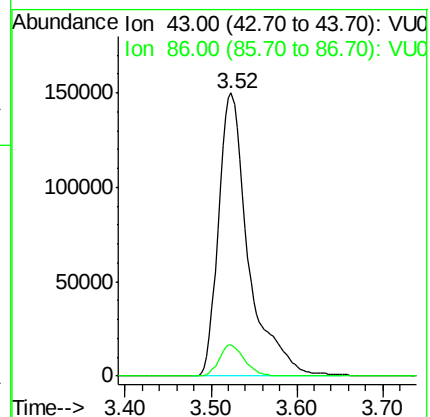
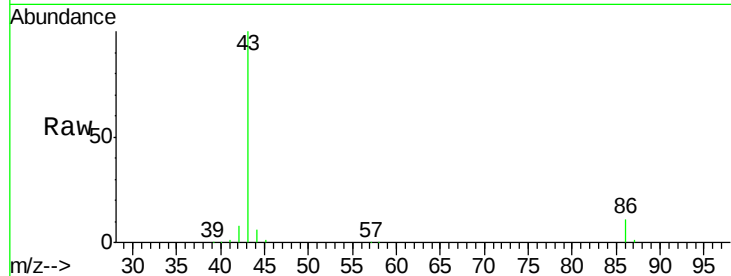
86 10.9 8.6 13.0

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#24

1,1-Dichloroethane

Concen: 22.160 ug/l

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

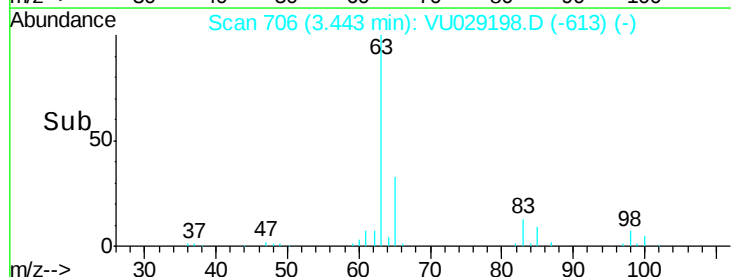
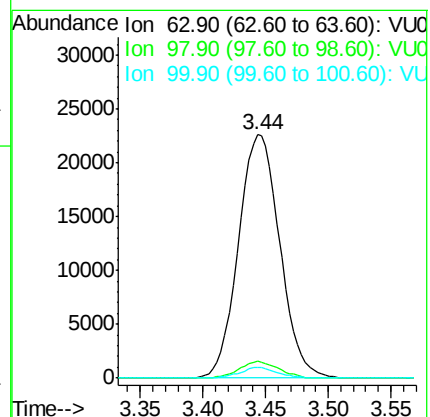
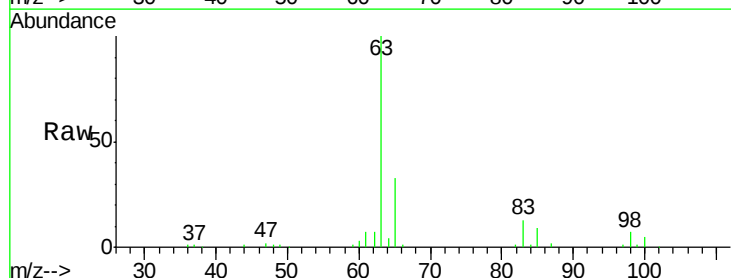
Tgt Ion: 63 Resp: 51738

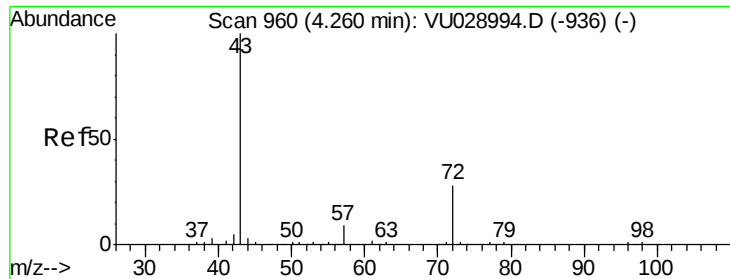
Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.1

100 4.6 2.0 5.8





#25

2-Butanone

Concen: 118.170 ug/l

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 43 Resp: 133659

Ion Ratio Lower Upper

43 100

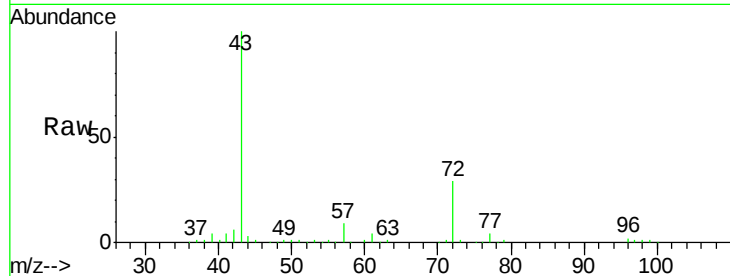
72 28.6 22.6 33.8

Manual Integrations

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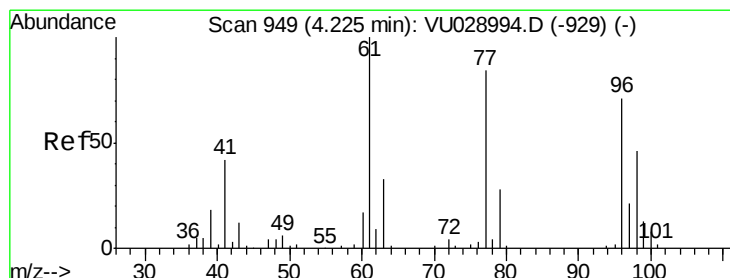
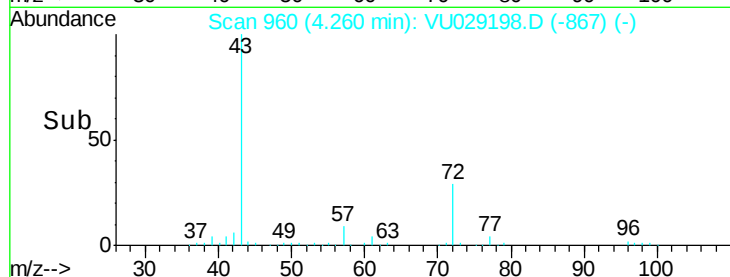
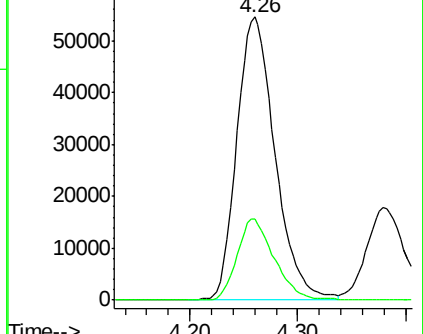
MMDadoda

1/17/2019 9:43:36 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 22.283 ug/l

RT: 4.22 min Scan# 949

Delta R.T. 0.00 min

Lab File: VU029198.D

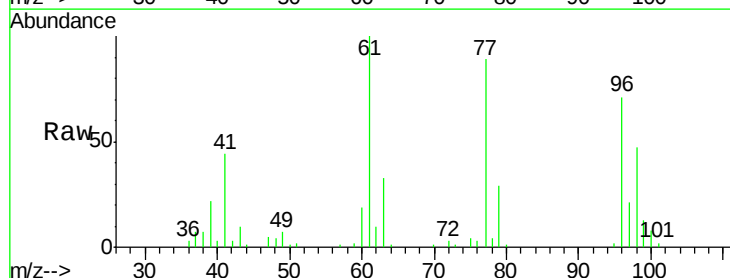
Acq: 16 Jan 2019 10:37

Tgt Ion: 77 Resp: 42037

Ion Ratio Lower Upper

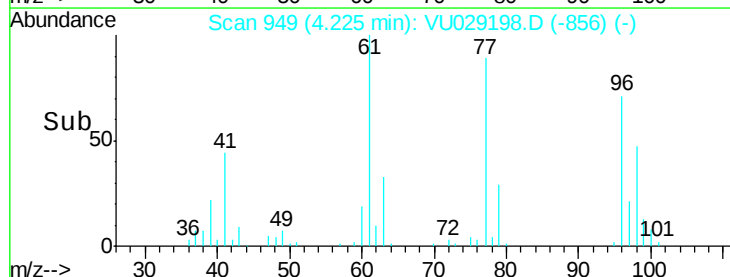
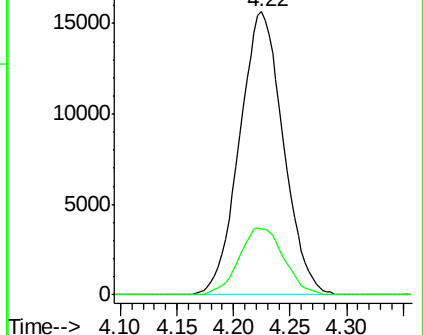
77 100

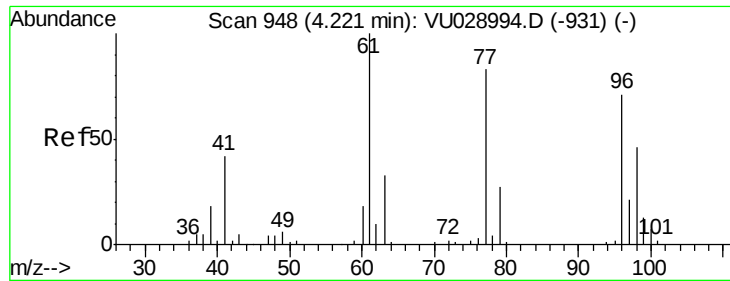
97 24.3 12.0 36.1



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

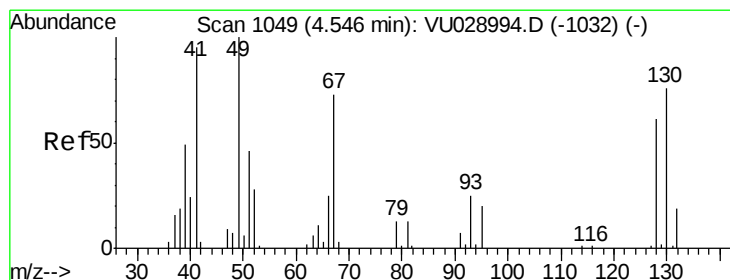
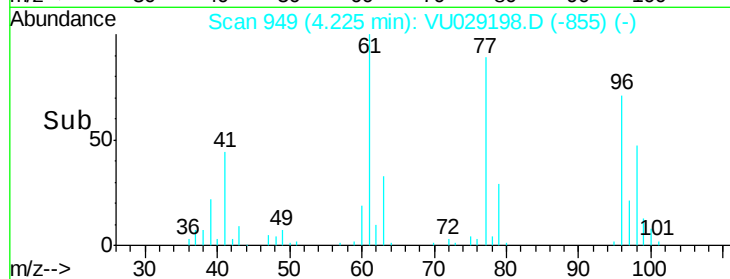
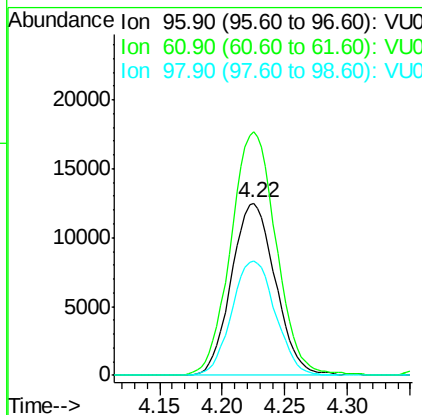
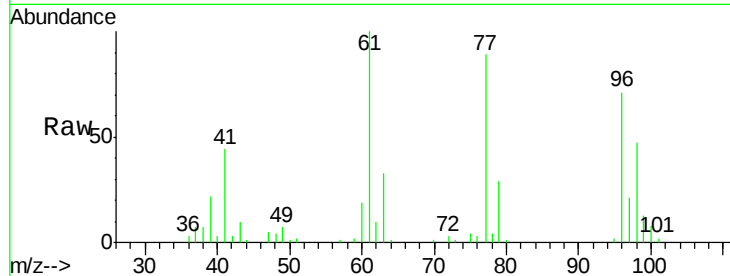
cis-1,2-Dichloroethene
Concen: 21.513 ug/l
RT: 4.22 min Scan# 949
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	30488		
61	146.0		0.0	285.6
98	65.8		0.0	130.2

Manual Integrations
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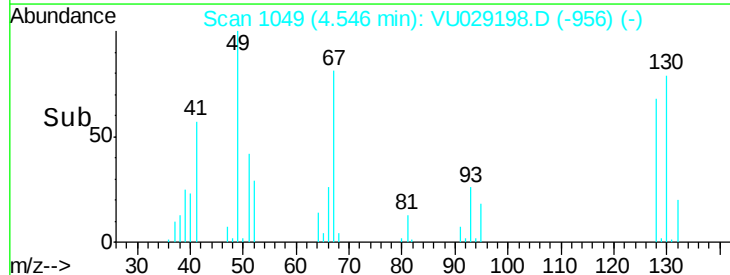
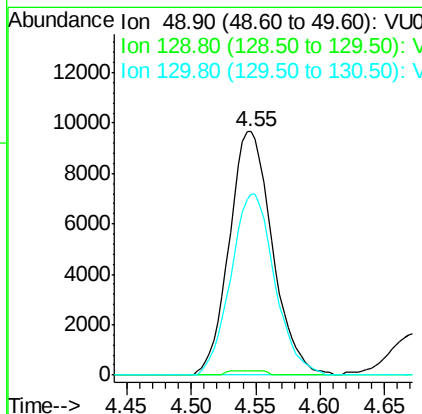
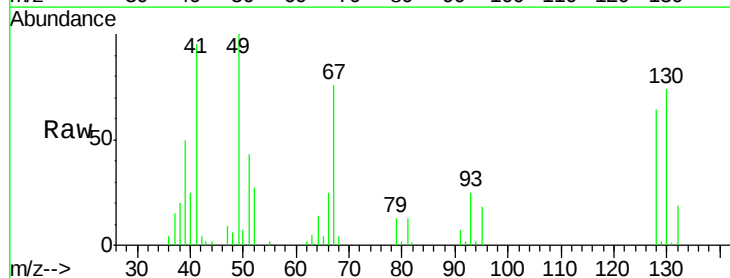
MMDadoda
1/17/2019 9:43:36 AM

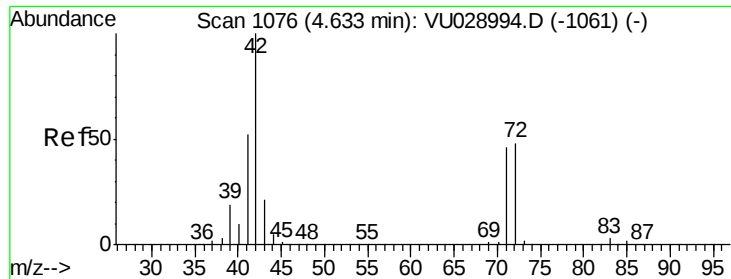


#28

Bromochloromethane
Concen: 22.498 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	22492		
129	1.5		0.0	3.4
130	75.4		62.9	94.3





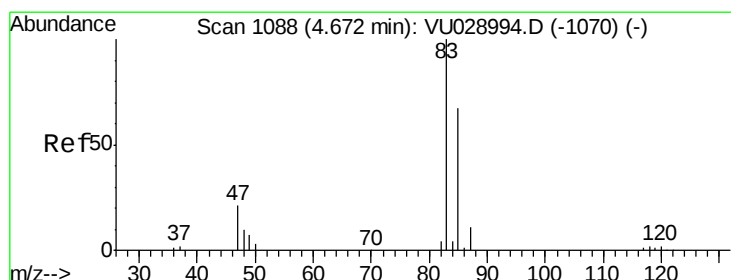
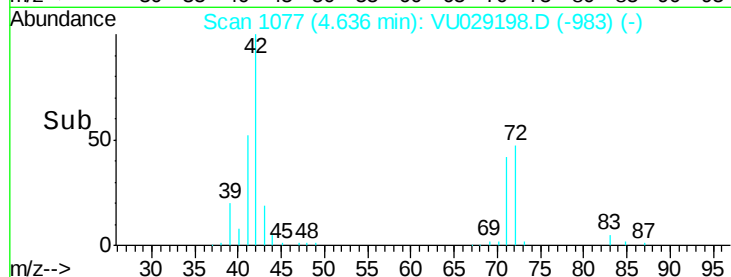
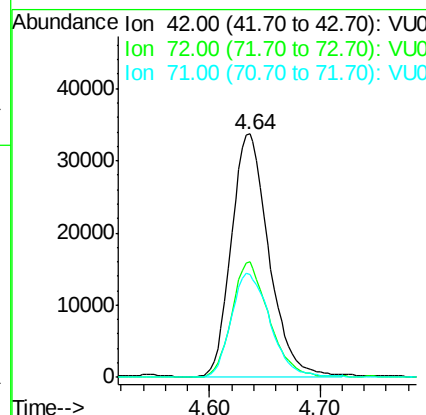
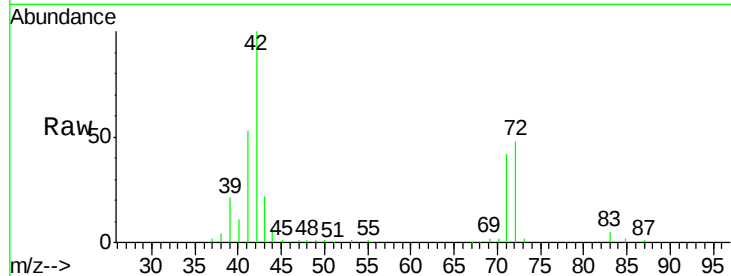
#29
Tetrahydrofuran
Concen: 116.270 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.9	38.3	57.5
71	44.3	36.1	54.1

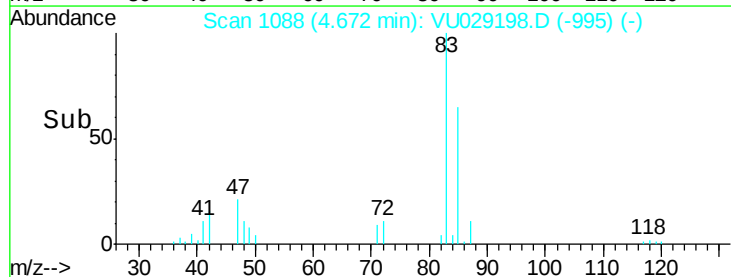
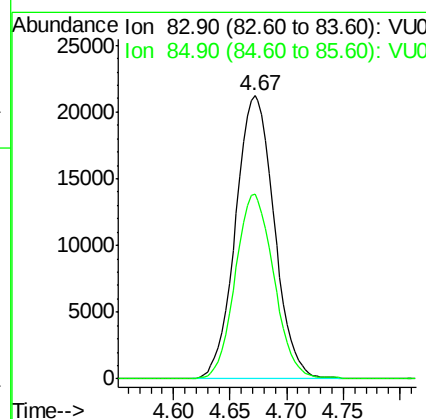
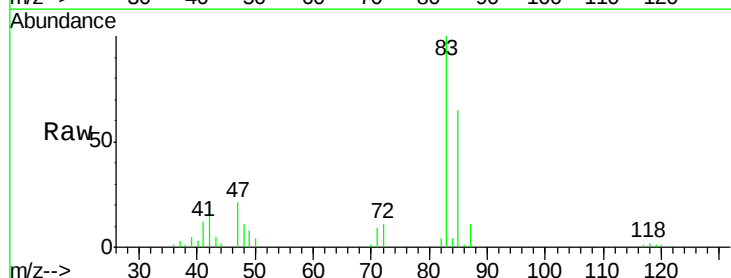
Manual Integrations
APPROVED

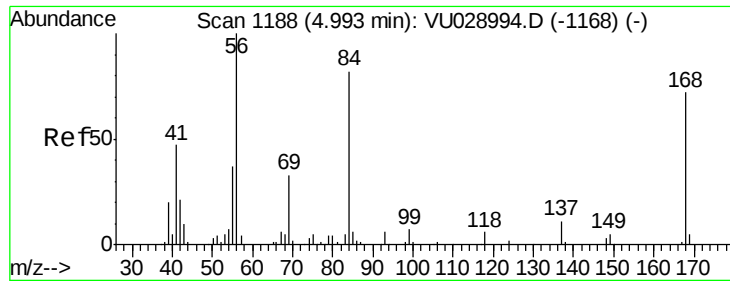
MMDadoda
1/17/2019 9:43:36 AM



#30
Chloroform
Concen: 22.715 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	53.4	80.0





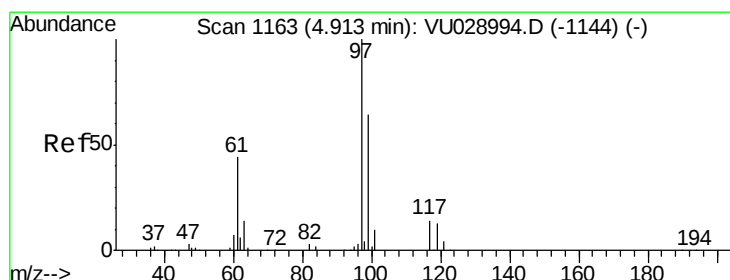
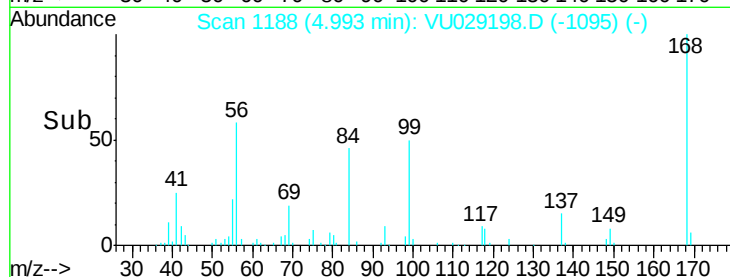
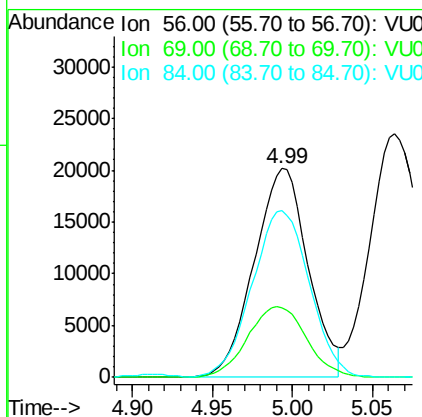
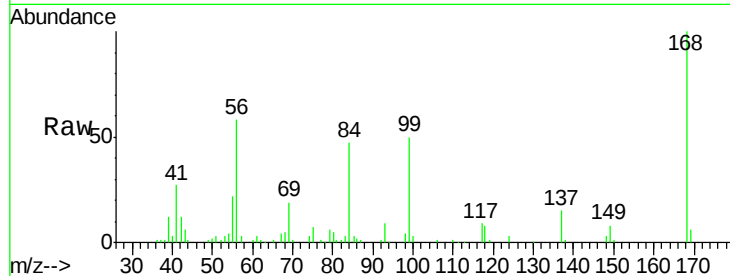
#31
Cyclohexane
Concen: 20.662 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.4	26.7	40.1
84	79.8	65.7	98.5

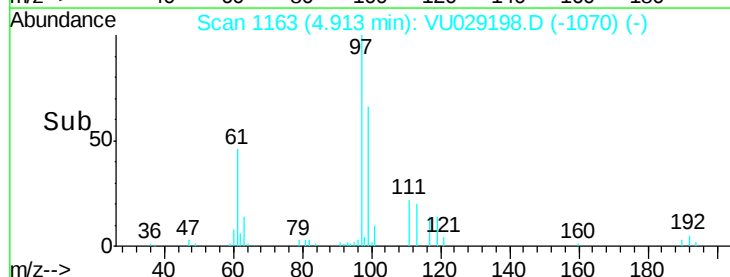
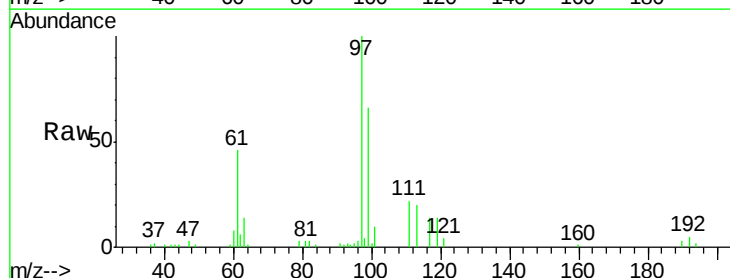
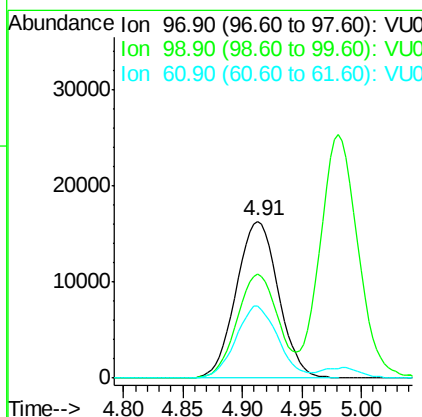
Manual Integrations
APPROVED

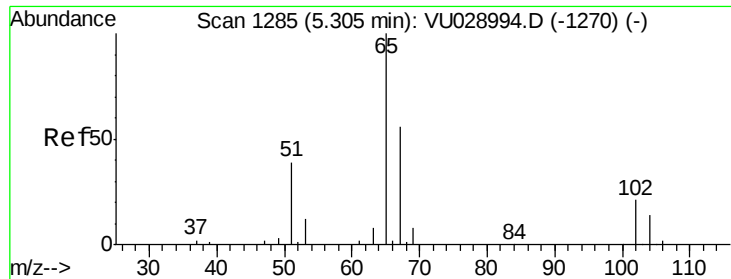
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1/17/2019 9:43:36 AM



#32
1,1,1-Trichloroethane
Concen: 21.903 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.0	76.4
61	45.7	34.4	51.6





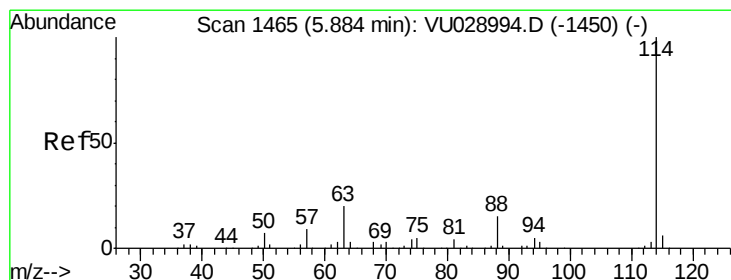
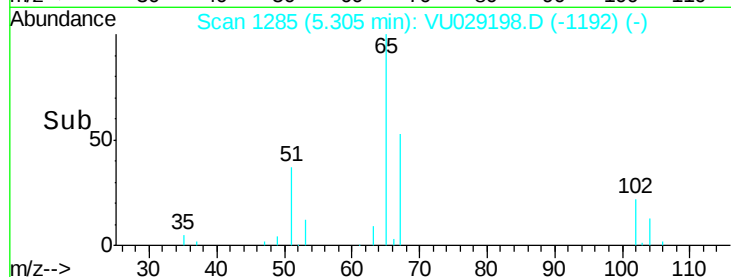
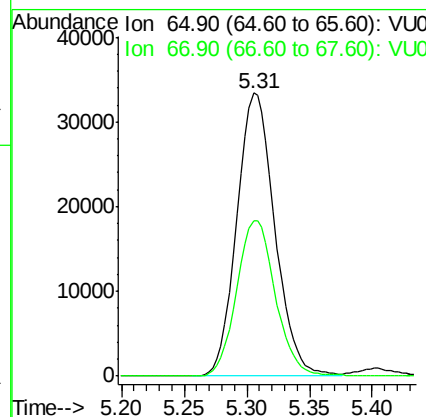
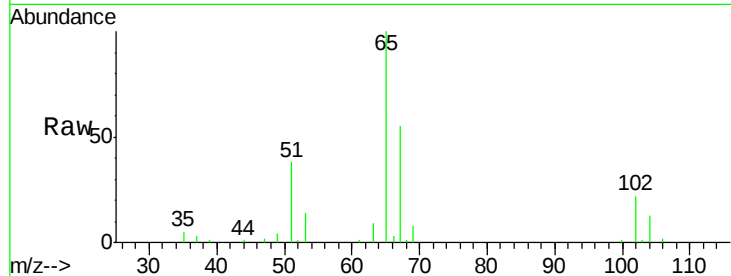
#33
 1,2-Dichloroethane-d4
 Concen: 53.048 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	70519		
67	55.8	0.0	111.0	

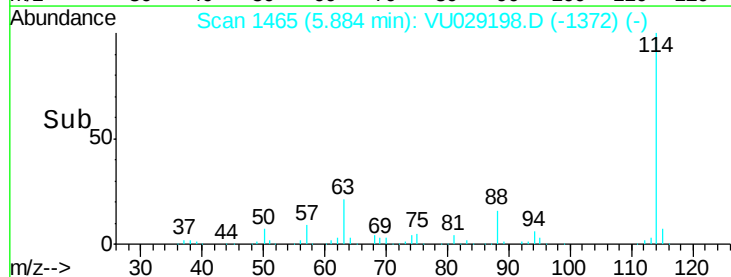
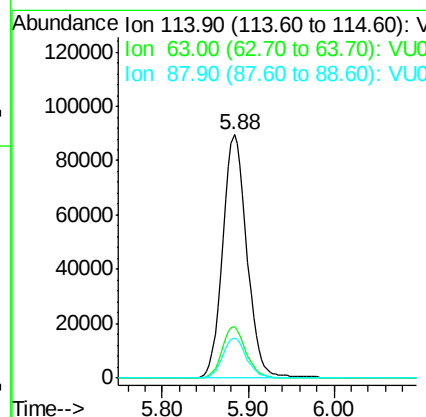
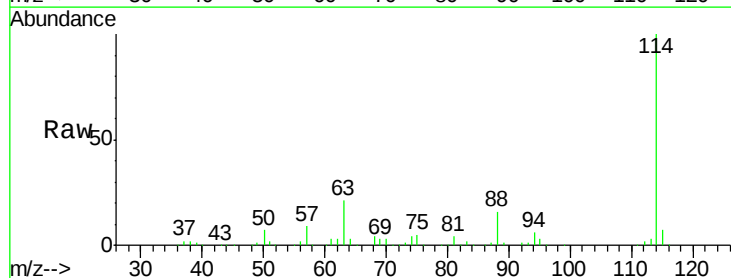
Manual Integrations
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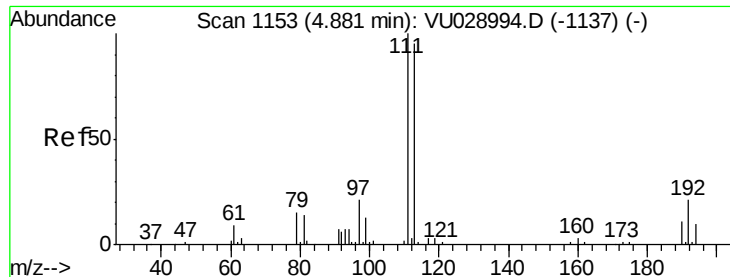
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	176087		
63	21.3	0.0	40.2	
88	16.4	0.0	30.4	





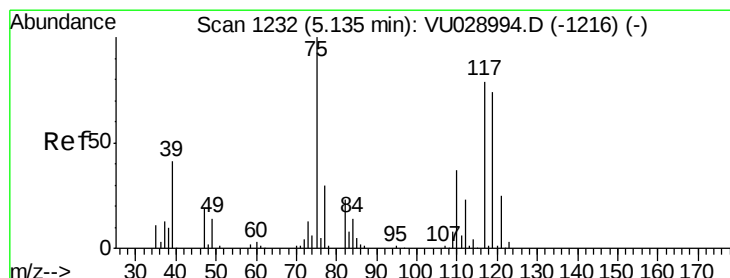
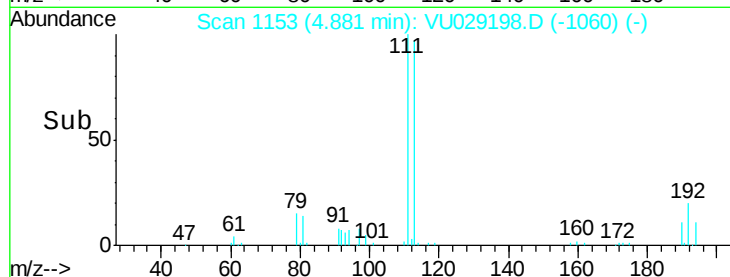
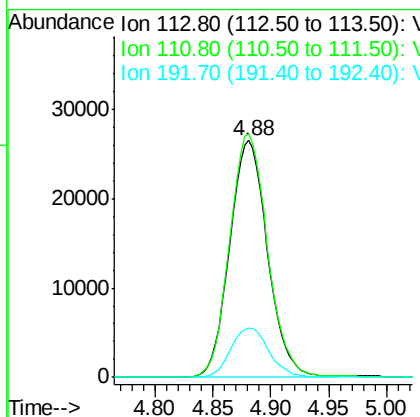
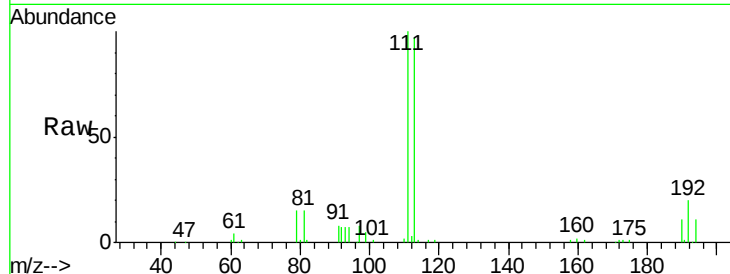
#35
 Dibromofluoromethane
 Concen: 52.595 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.4	122.2
192	20.9	16.8	25.2

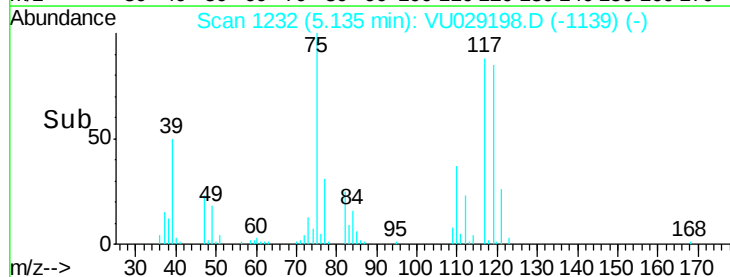
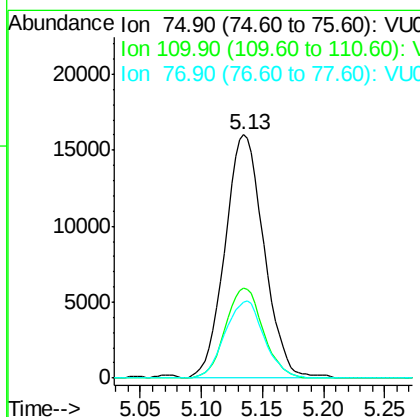
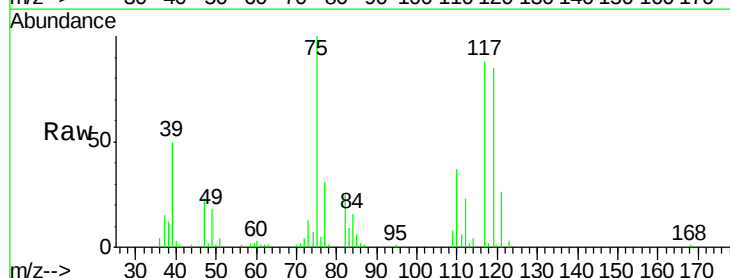
Manual Integrations
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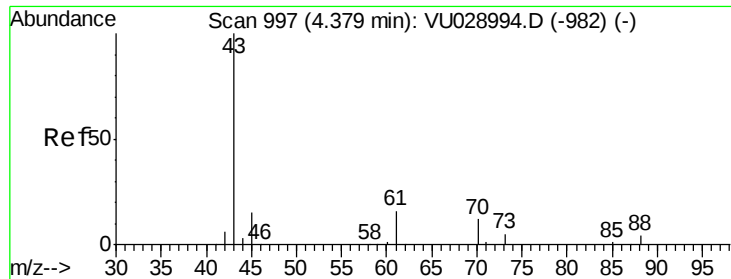
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 1/17/2019 9:43:36 AM



#36
 1,1-Dichloropropene
 Concen: 20.270 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.4	55.4
77	31.8	25.1	37.7





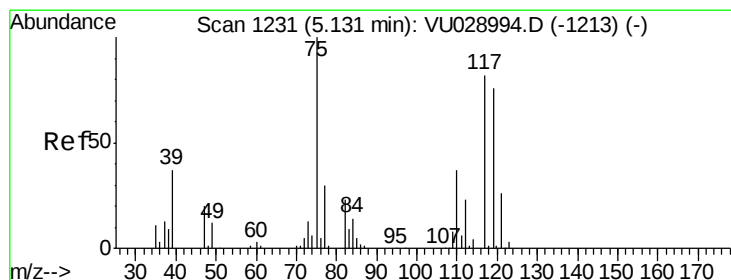
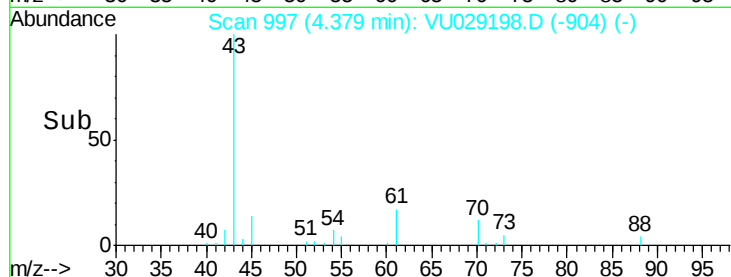
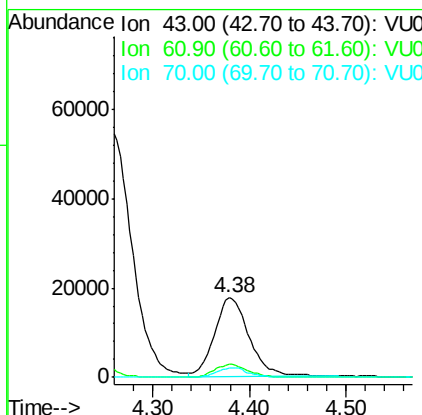
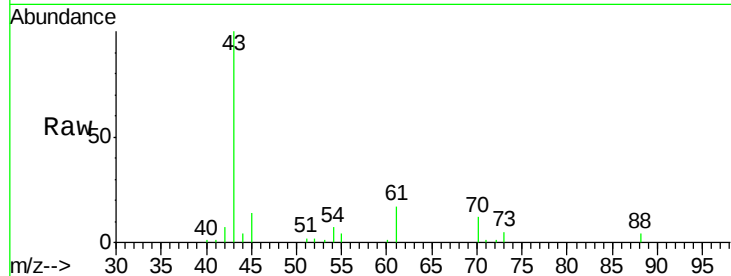
#37
Ethyl Acetate
Concen: 22.713 ug/l
RT: 4.38 min Scan# 997
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	43	Resp	43881
Ion Ratio	100	Lower	Upper
43	100		
61	15.7	12.6	18.8
70	11.1	9.3	13.9

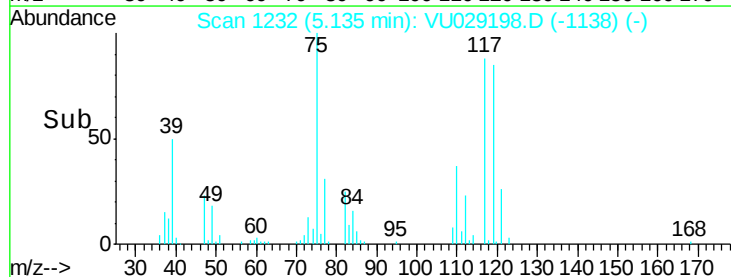
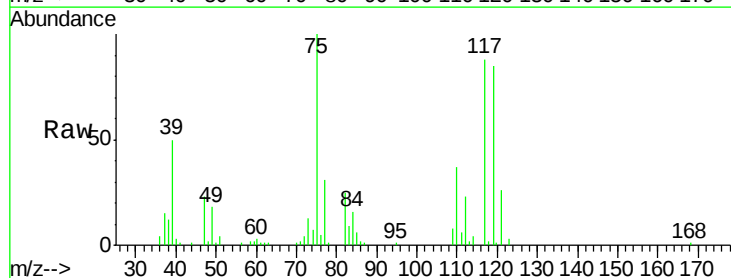
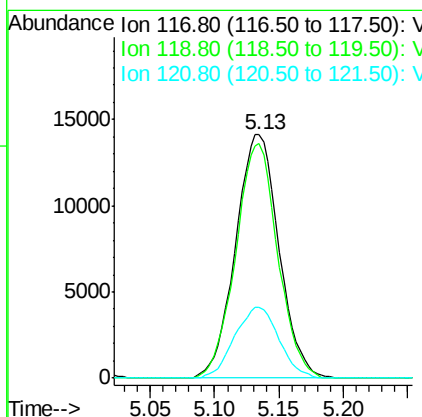
Manual Integrations
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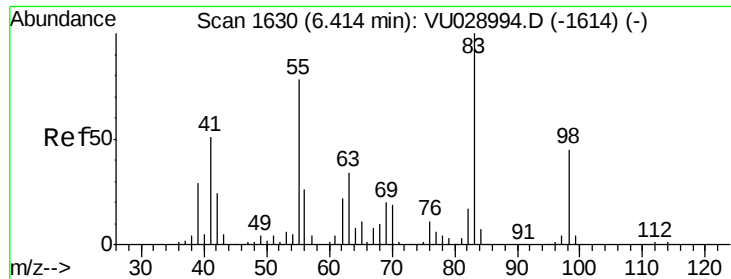
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#38
Carbon Tetrachloride
Concen: 22.528 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	117	Resp	33071
Ion Ratio	100	Lower	Upper
117	100		
119	96.3	74.6	111.8
121	29.1	25.0	37.6





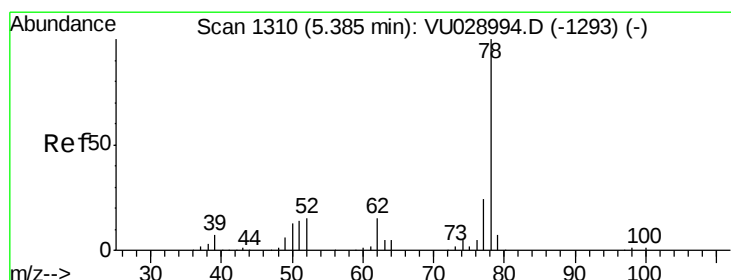
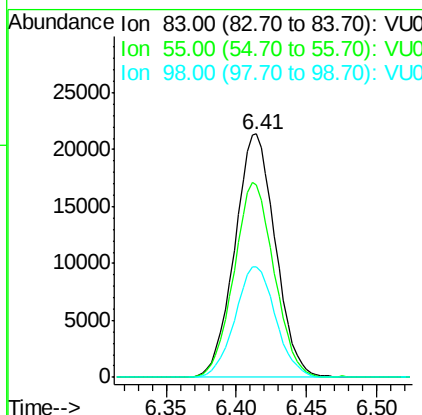
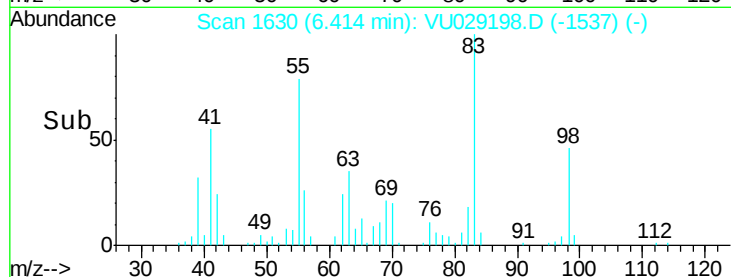
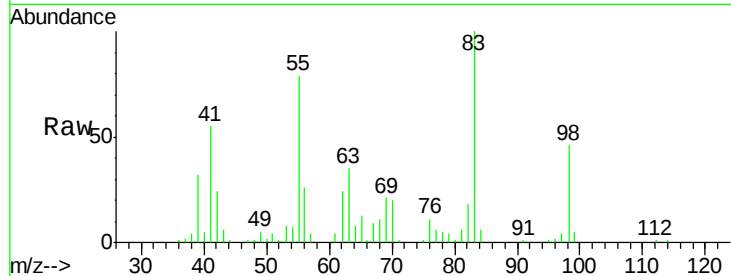
#39
Methvlcvclohexane
Concen: 19.875 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.2	62.4	93.6
98	45.6	36.2	54.2

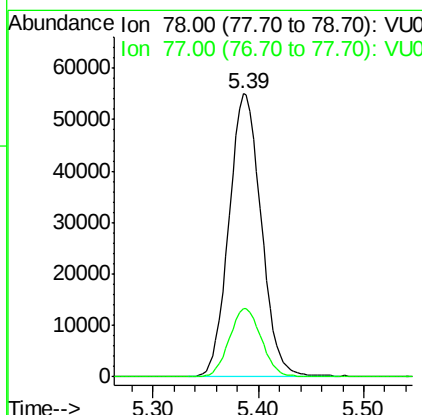
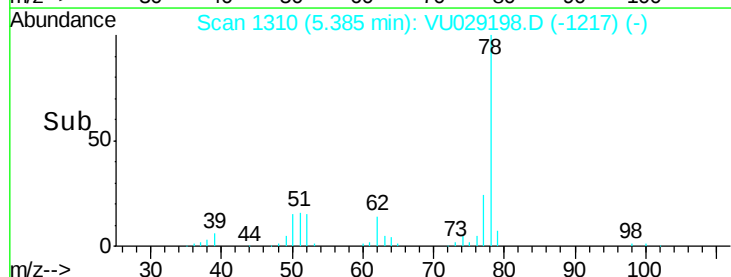
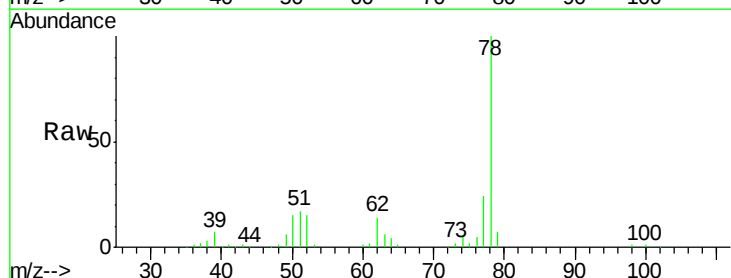
Manual Integrations
APPROVED

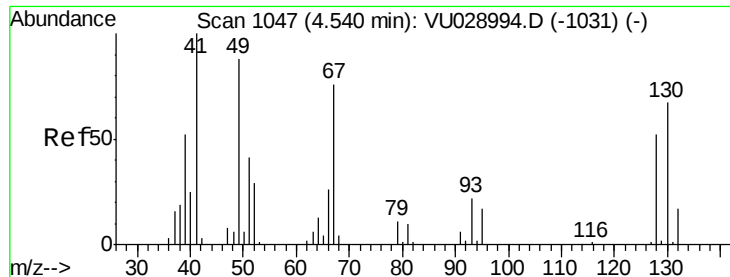
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#40
Benzene
Concen: 21.306 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.9	28.3





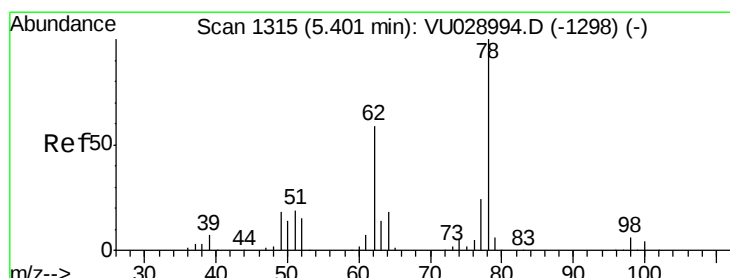
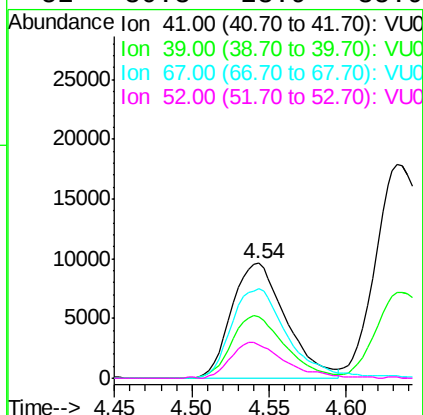
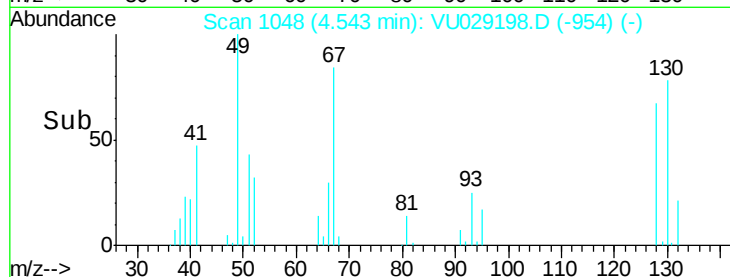
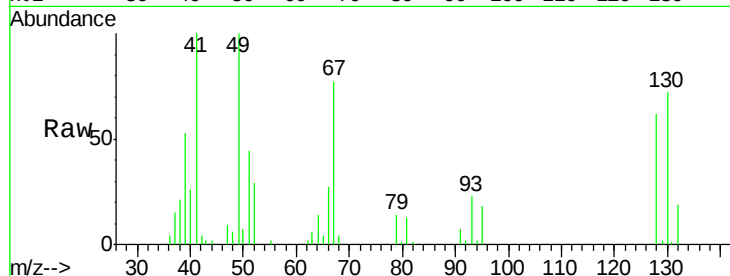
#41
Methacrylonitrile
Concen: 22.739 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.6	42.3	63.5
67	79.9	64.4	96.6
52	30.3	23.9	35.9

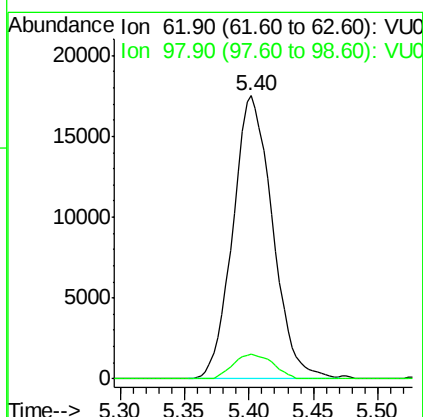
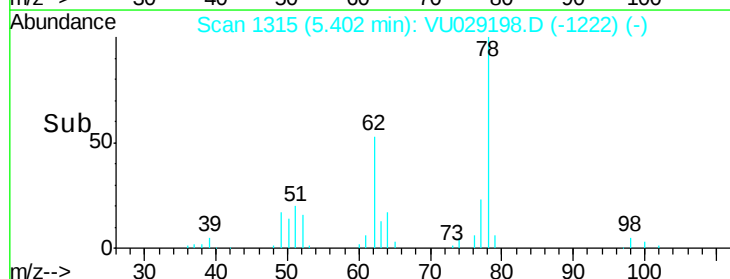
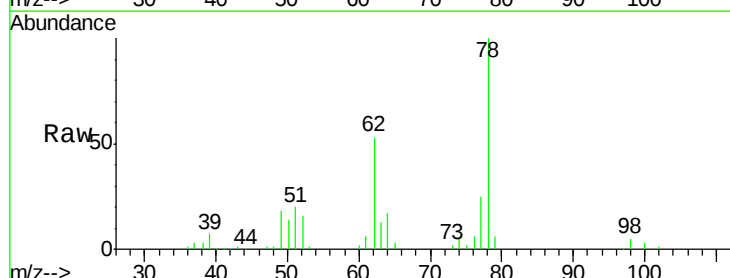
Manual Integrations
APPROVED

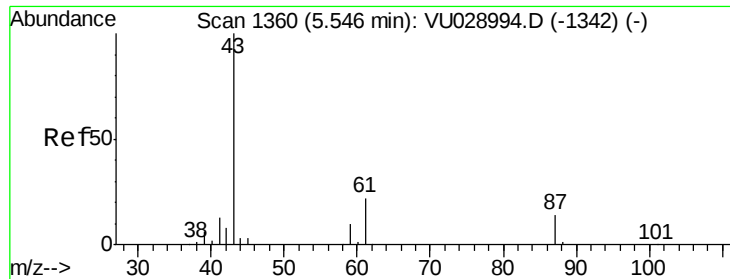
MMDadoda
1/17/2019 9:43:36 AM



#42
1,2-Dichloroethane
Concen: 22.701 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	19.6





#43

Isopropyl Acetate

Concen: 22.809 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

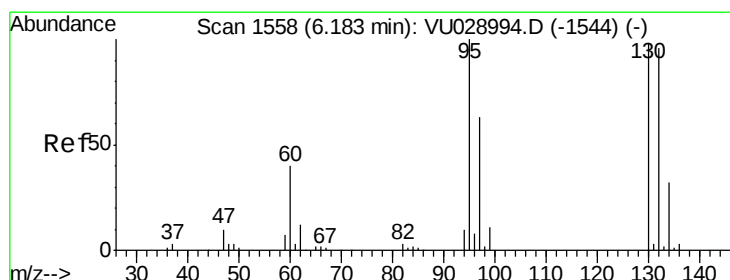
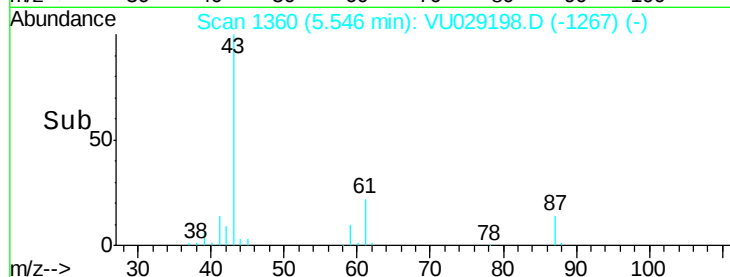
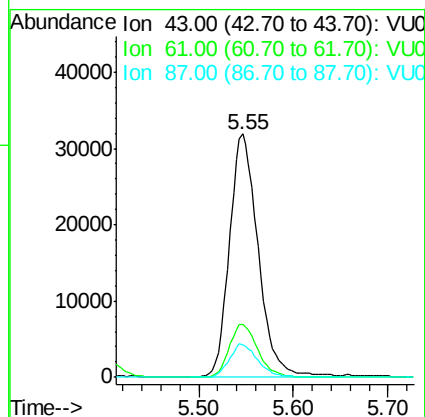
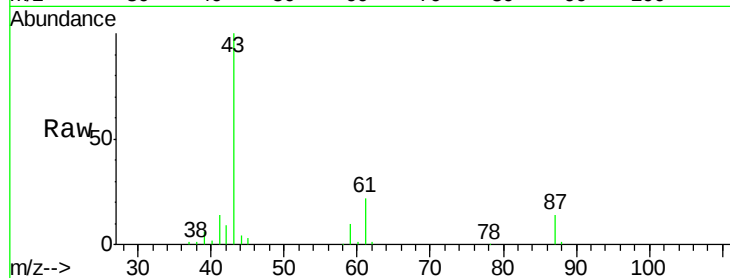
ClientSampleId :

VU0116WBSD01

Tot Ion:	43	Resp:	67596
Ion	Ratio	Lower	Upper
43	100		
61	21.4	17.8	26.6
87	13.5	11.3	16.9

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#44

Trichloroethene

Concen: 20.434 ug/l

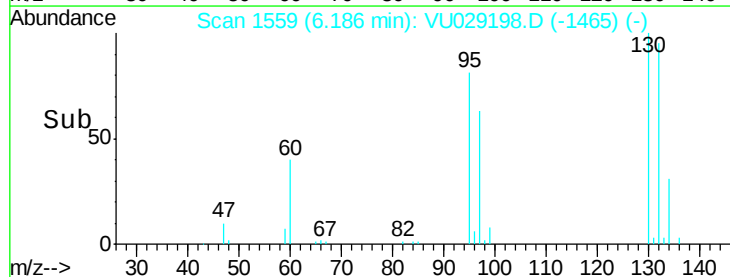
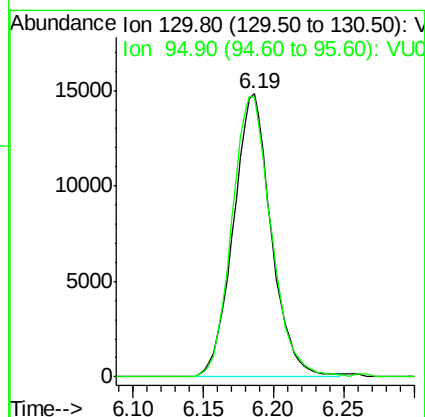
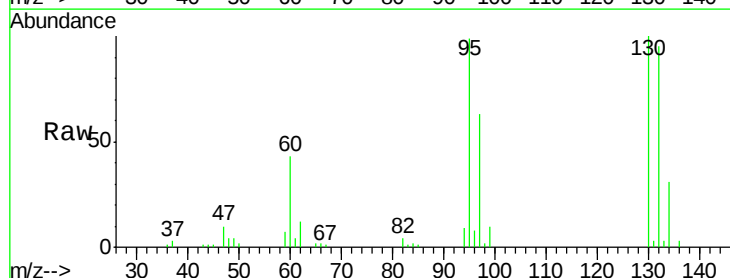
RT: 6.19 min Scan# 1559

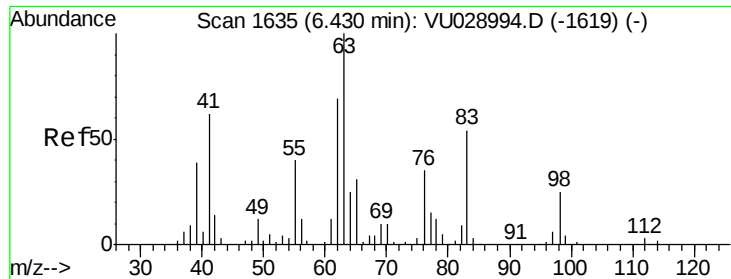
Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Tgt Ion:	130	Resp:	27797
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	205.0





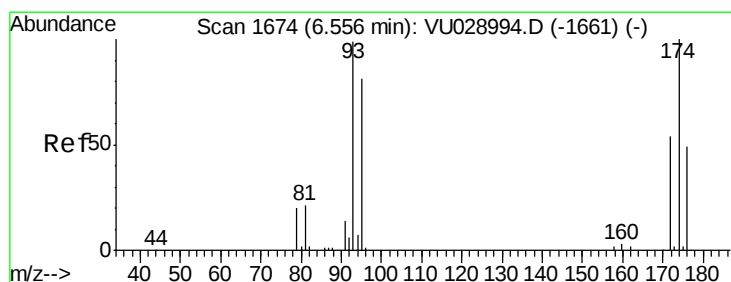
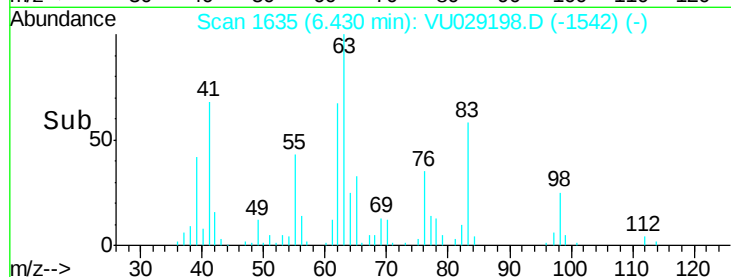
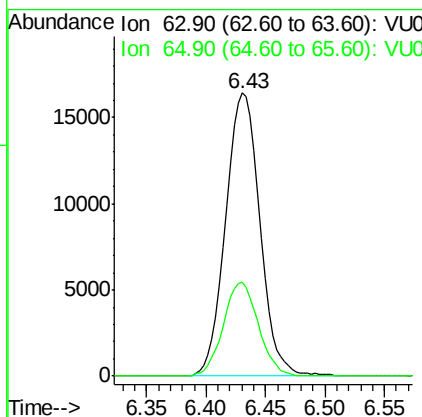
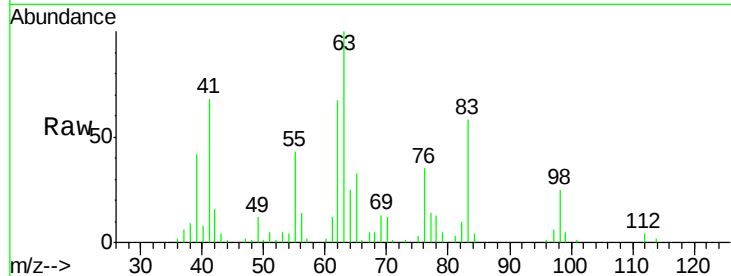
#45
 1,2-Dichloropropane
 Concen: 22.708 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Tot Ion: 63 Resp: 32922
 Ion Ratio Lower Upper
 63 100
 65 33.4 25.1 37.7

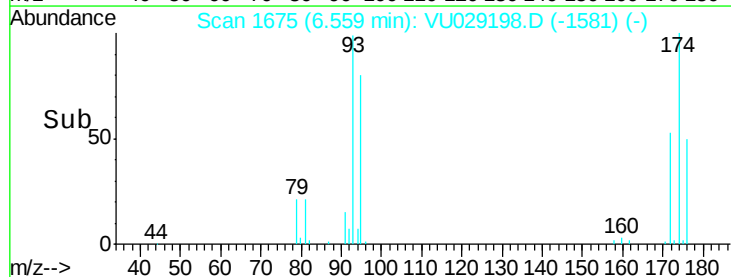
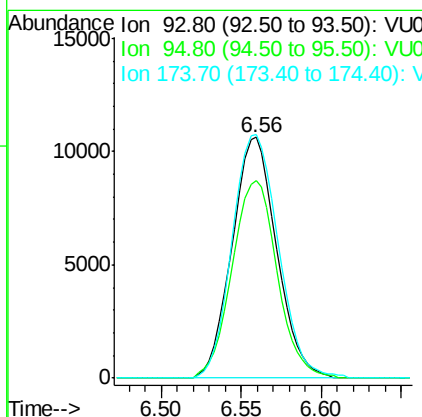
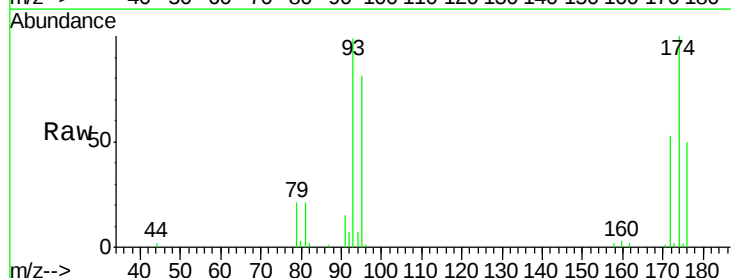
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#46
 Dibromomethane
 Concen: 21.849 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Tgt Ion: 93 Resp: 20250
 Ion Ratio Lower Upper
 93 100
 95 82.9 67.2 100.8
 174 104.5 82.6 123.8





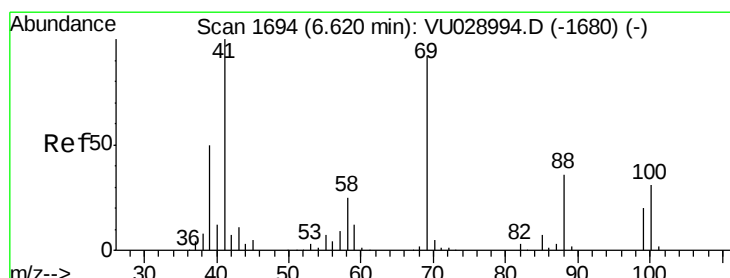
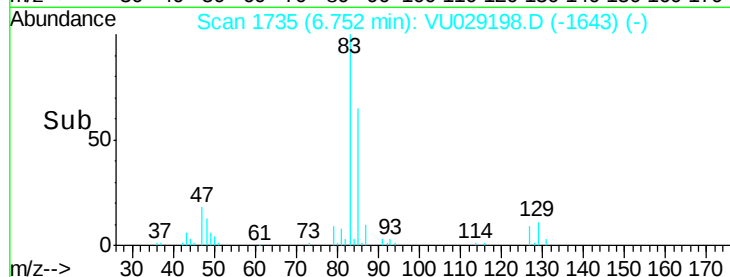
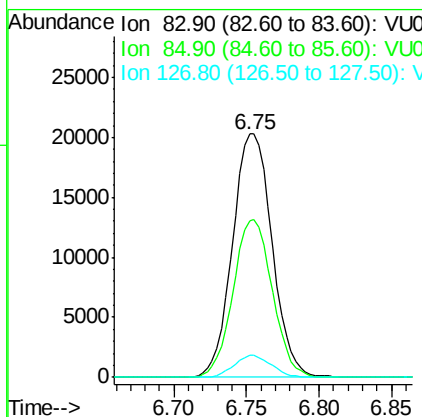
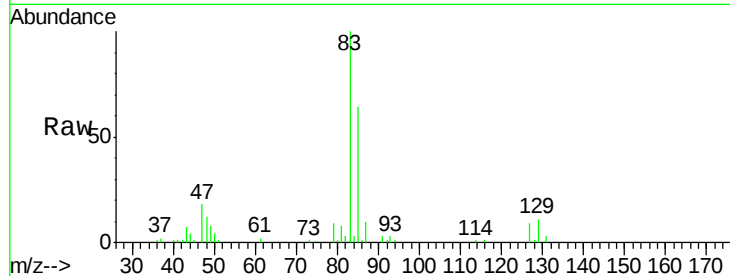
#47
Bromodichloromethane
Concen: 22.499 ug/l
RT: 6.75 min Scan# 1735
Delta R.T. -0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	38393		
85	64.5		51.4	77.2
127	9.0		7.0	10.4

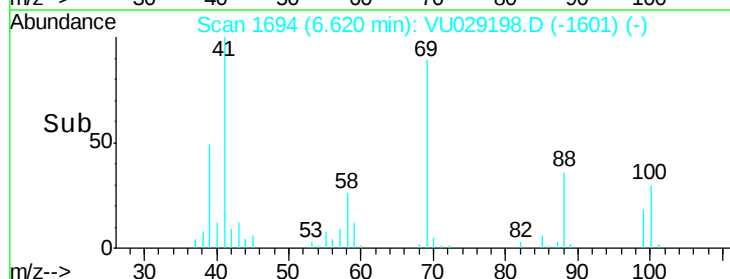
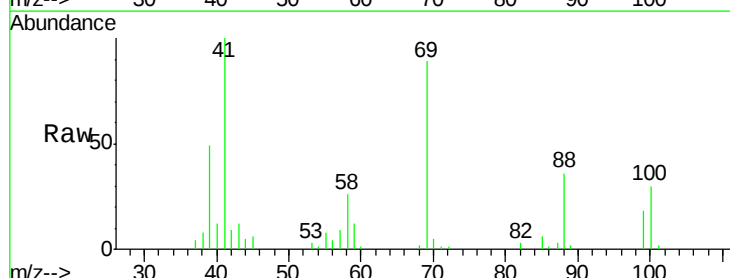
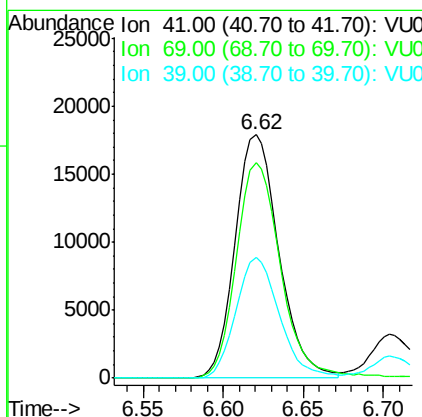
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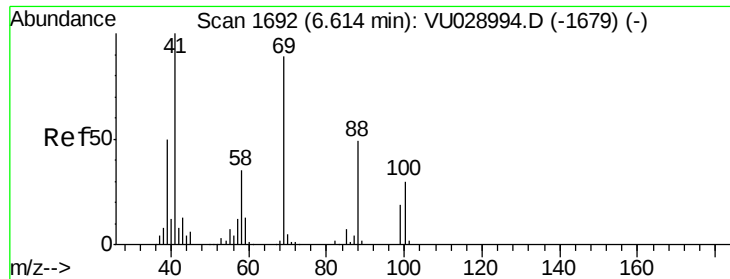
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#48
Methyl methacrylate
Concen: 23.184 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	33456		
69	90.1		73.6	110.4
39	49.1		39.6	59.4





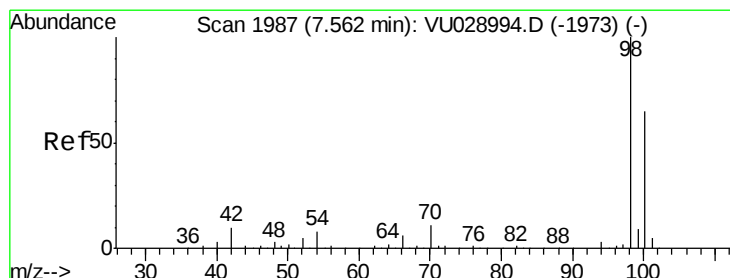
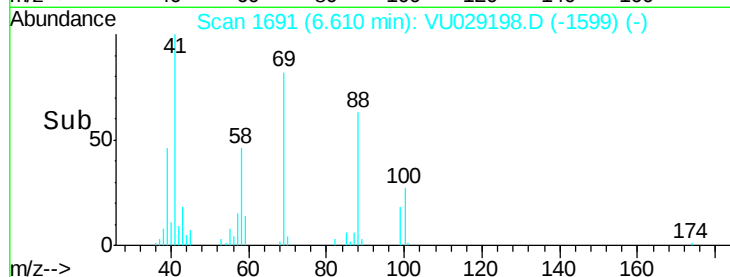
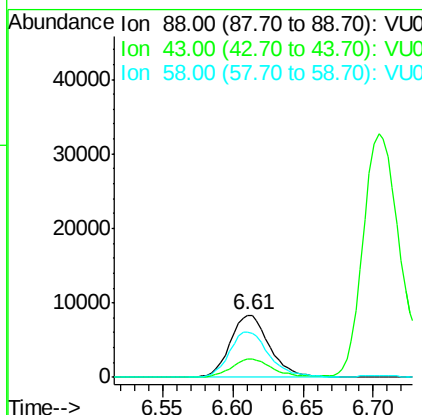
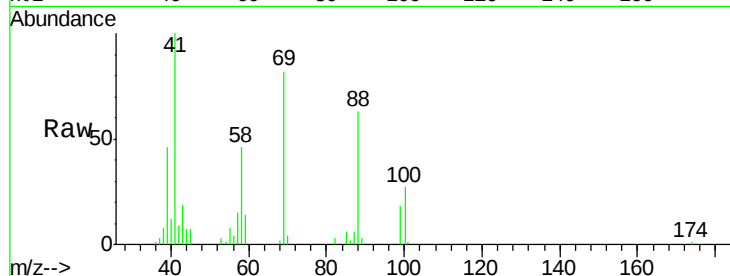
#49
1,4-Dioxane
Concen: 474.789 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.6	23.0	34.4
58	74.0	57.9	86.9

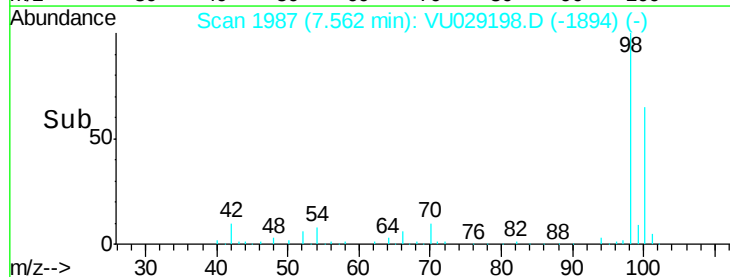
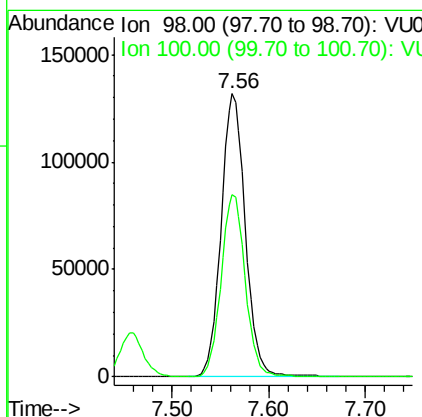
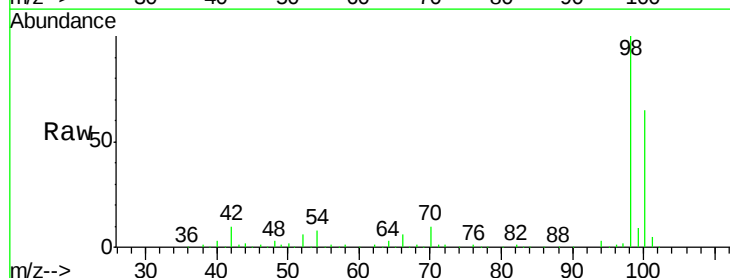
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#50
Toluene-d8
Concen: 50.821 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 116.965 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 43 Resp: 235909

Ion Ratio Lower Upper

43 100

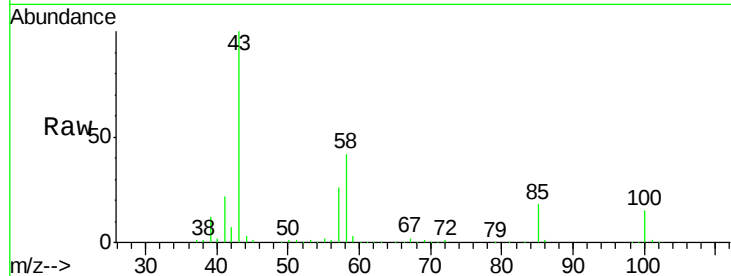
58 41.7 33.9 50.9

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

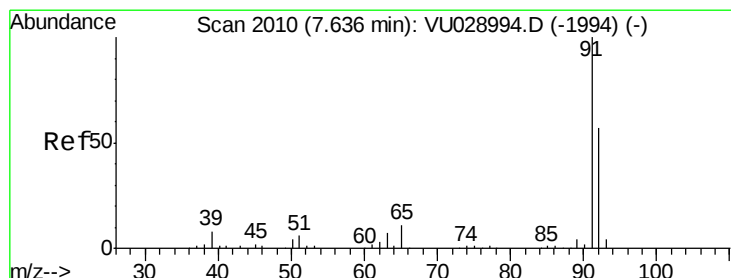
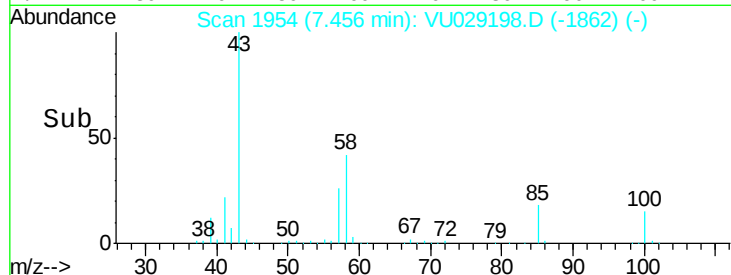
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 21.351 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU029198.D

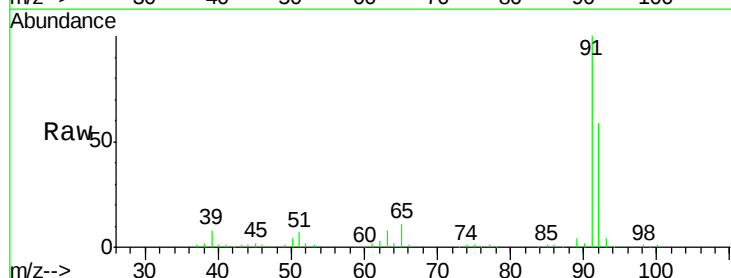
Acq: 16 Jan 2019 10:37

Tgt Ion: 92 Resp: 71359

Ion Ratio Lower Upper

92 100

91 175.1 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

80000

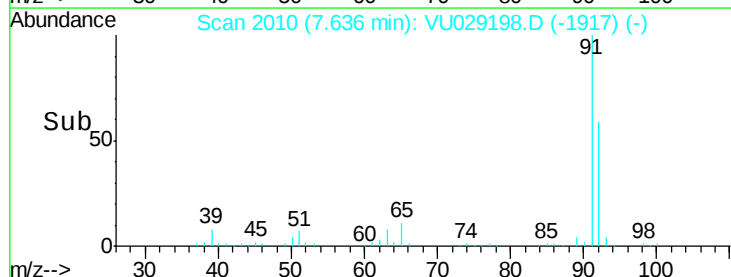
60000

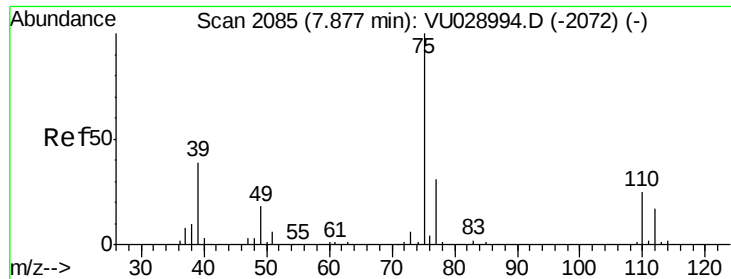
40000

20000

0

Time-->





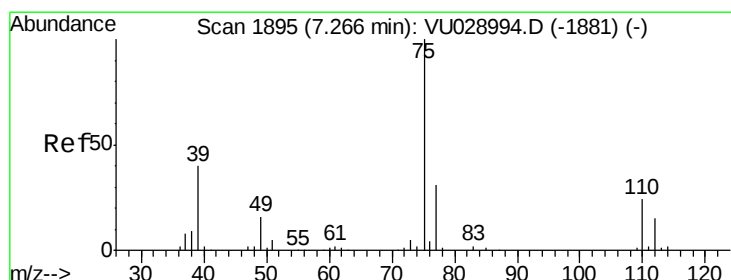
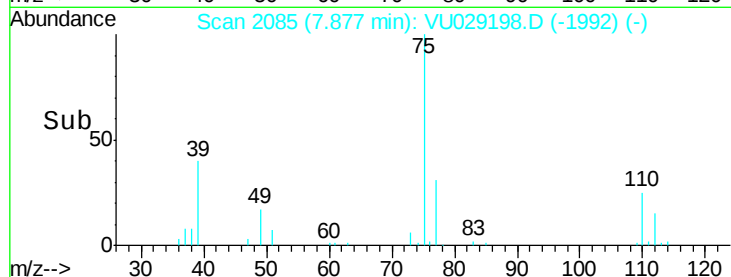
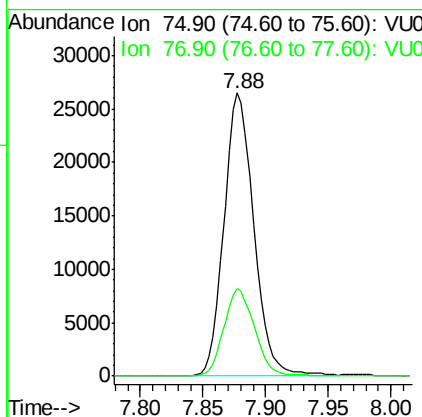
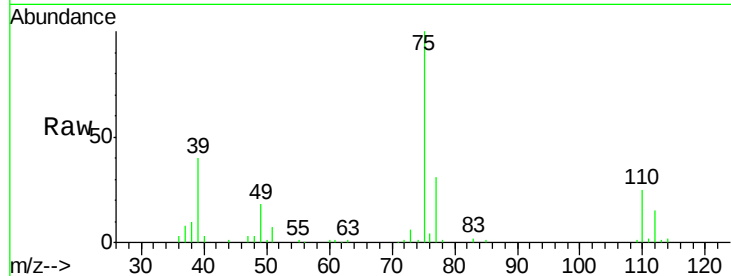
#53
t-1,3-Dichloropropene
Concen: 21.387 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion: 75 Resp: 43840
Ion Ratio Lower Upper
75 100
77 30.8 25.0 37.4

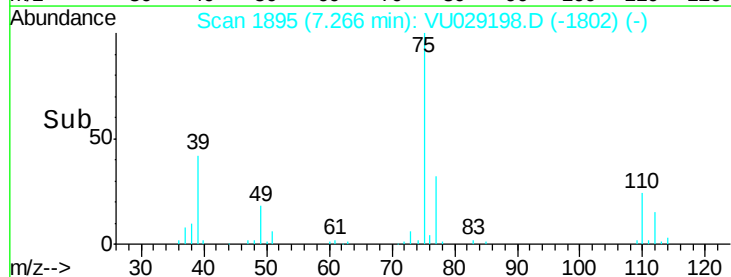
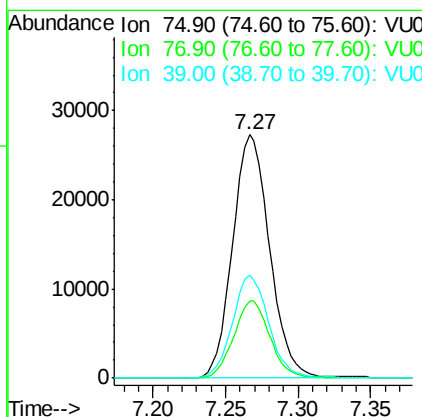
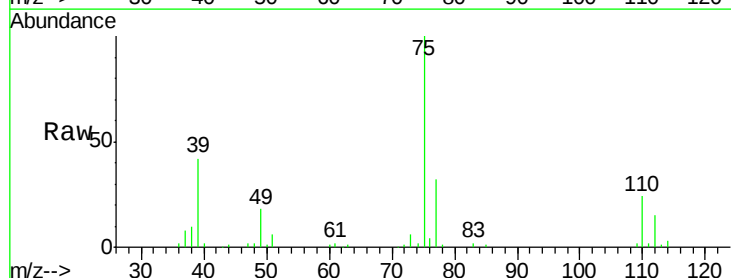
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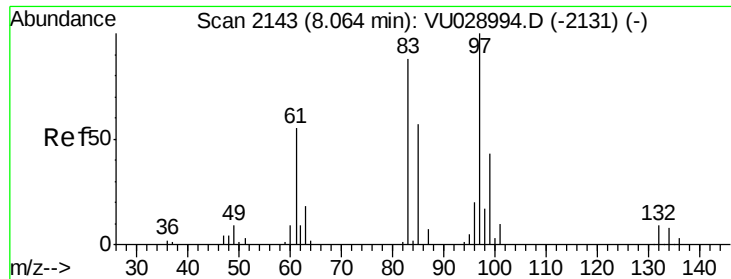
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#54
cis-1,3-Dichloropropene
Concen: 21.860 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion: 75 Resp: 48420
Ion Ratio Lower Upper
75 100
77 31.6 25.0 37.6
39 42.2 32.2 48.4





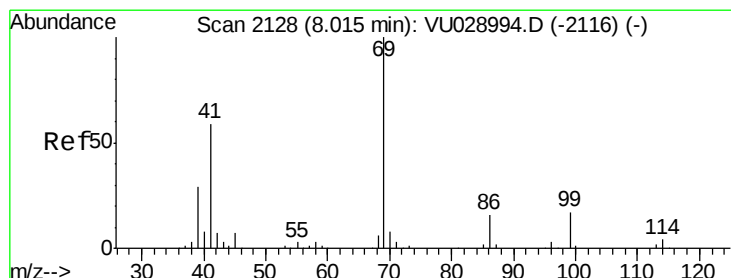
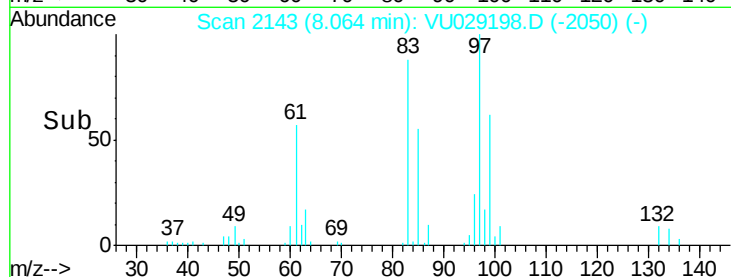
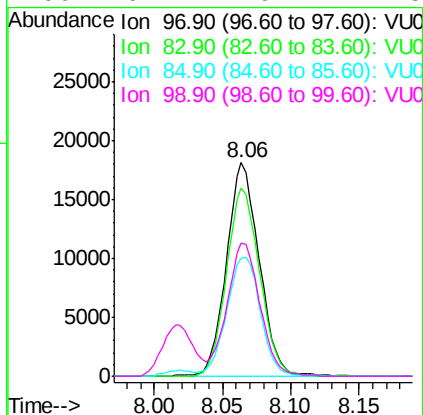
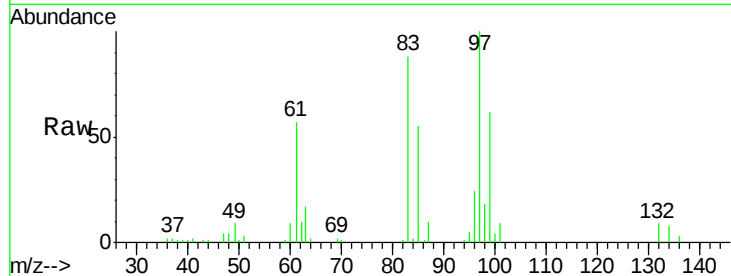
#55
 1,1,2-Trichloroethane
 Concen: 22.571 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.9	69.8	104.8	
85	55.2	47.3	70.9	
99	62.4	49.7	74.5	

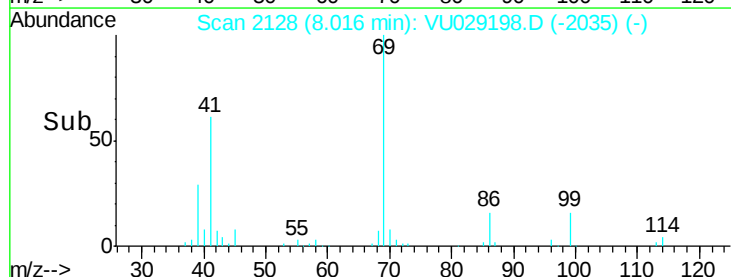
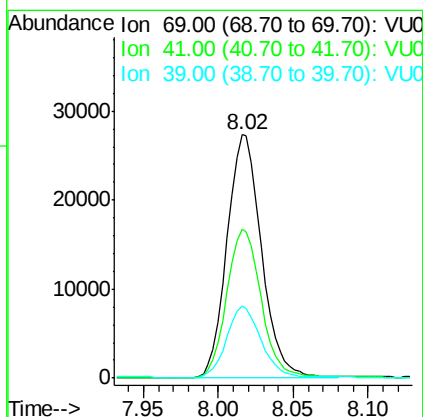
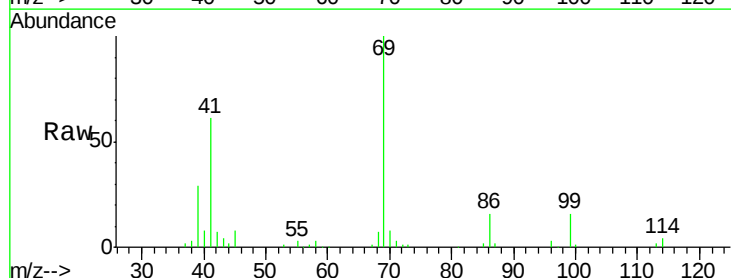
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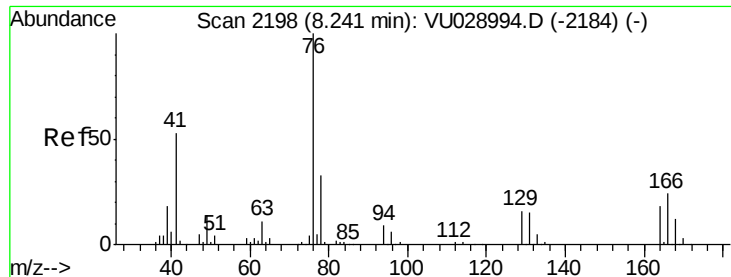
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#56
 Ethyl methacrylate
 Concen: 21.349 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	61.3	47.5	71.3	
39	29.6	22.5	33.7	





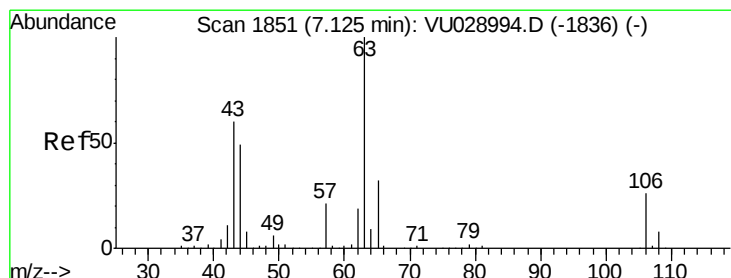
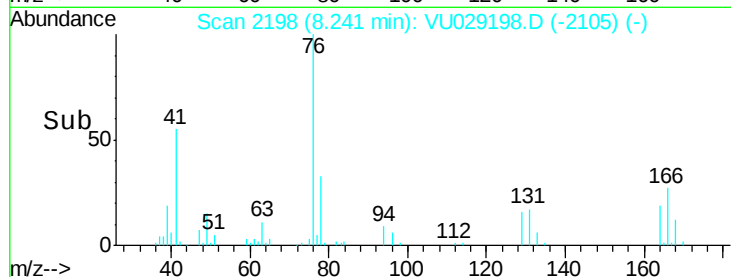
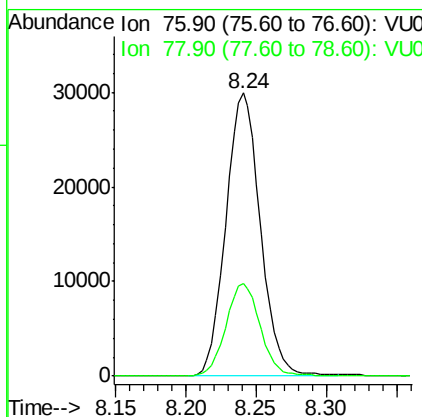
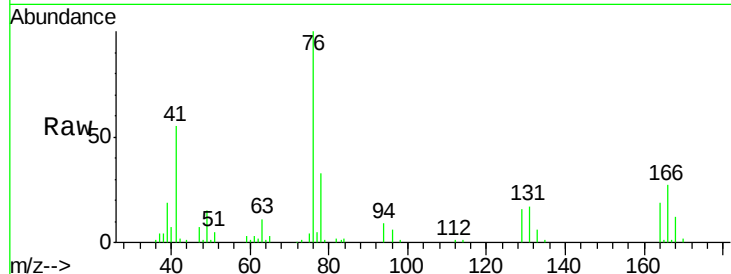
#57
 1,3-Dichloropropane
 Concen: 22.314 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Tot Ion: 76 Resp: 51124
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.0 39.0

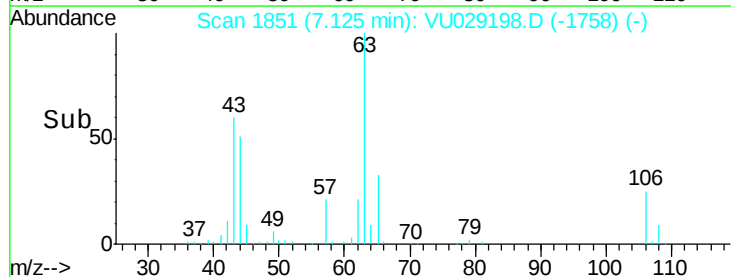
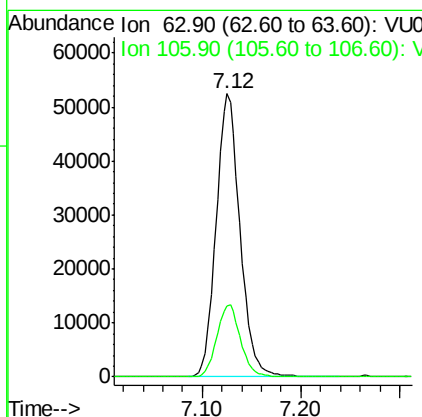
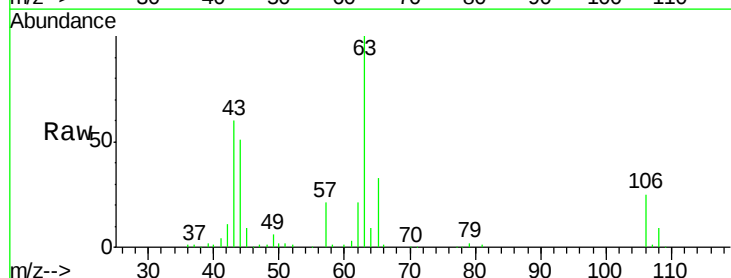
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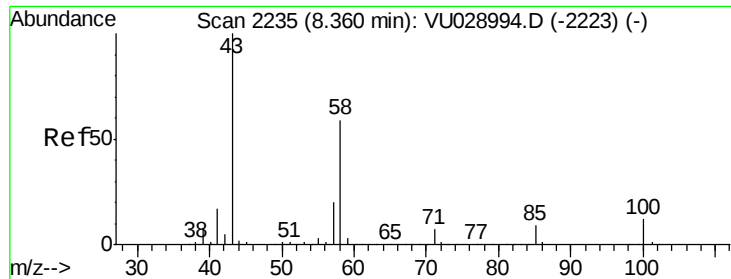
MMDadoda
 1/17/2019 9:43:36 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 97.931 ug/l
 RT: 7.12 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Tgt Ion: 63 Resp: 88841
 Ion Ratio Lower Upper
 63 100
 106 25.1 20.6 31.0





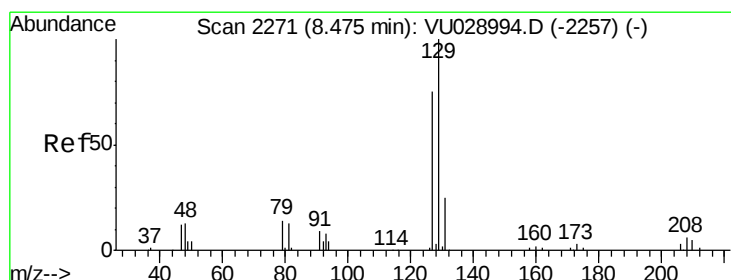
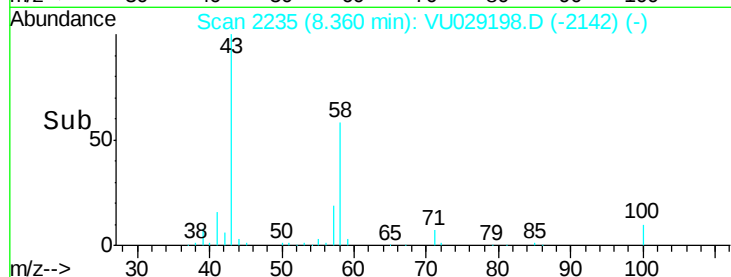
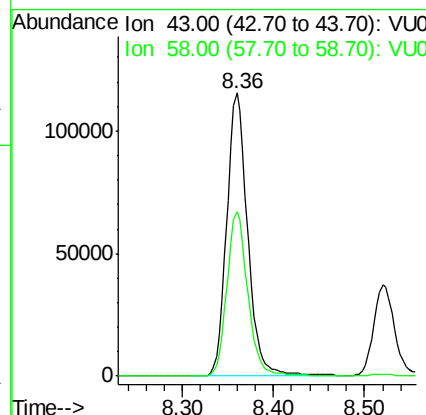
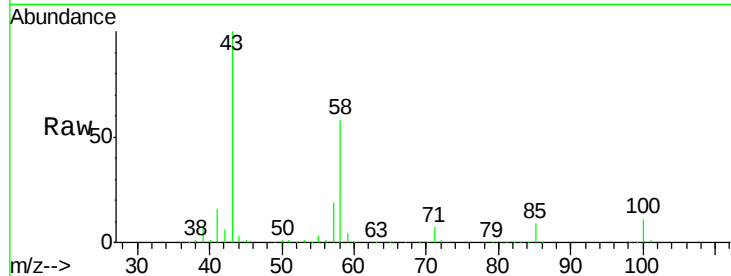
#59
2-Hexanone
Concen: 117.093 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion: 43 Resp: 185382
Ion Ratio Lower Upper
43 100
58 57.9 29.8 89.4

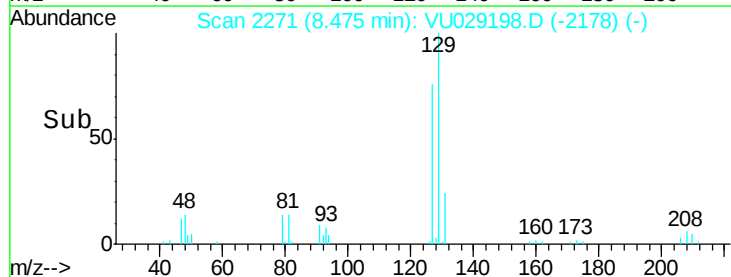
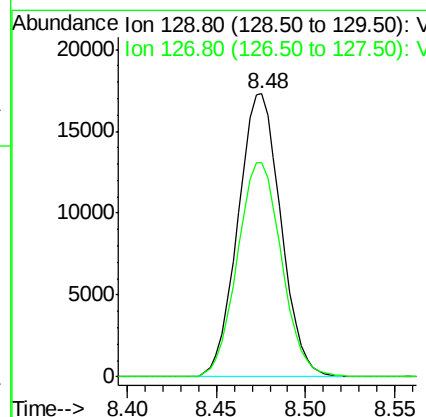
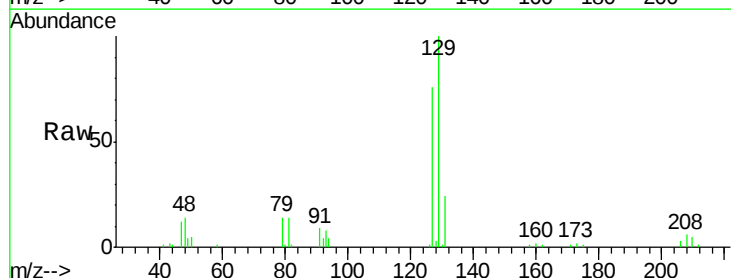
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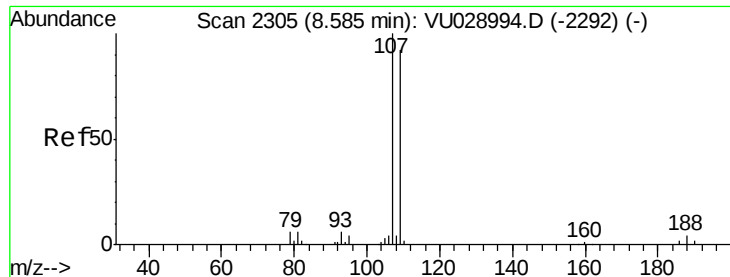
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#60
Dibromochloromethane
Concen: 21.843 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion: 129 Resp: 28975
Ion Ratio Lower Upper
129 100
127 77.9 38.0 114.0





#61

1,2-Dibromoethane

Concen: 22.225 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion:107 Resp: 32274

Ion Ratio Lower Upper

107 100

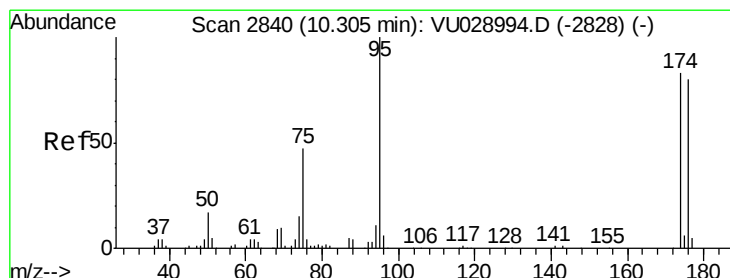
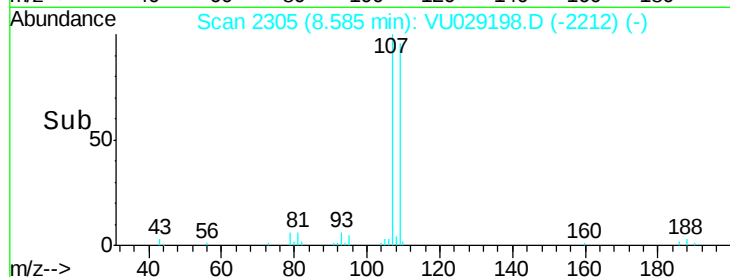
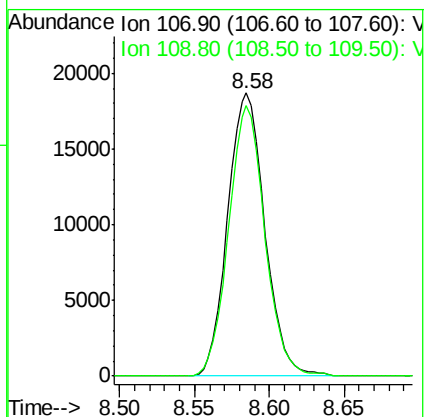
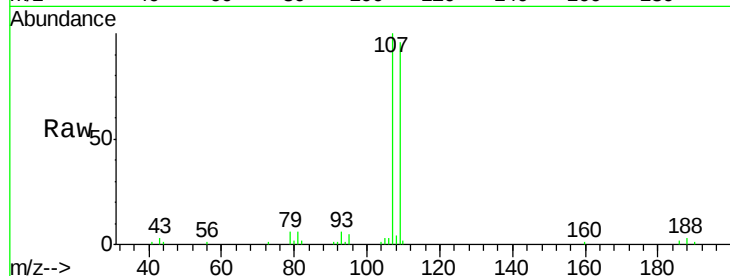
109 93.3 75.5 113.3

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#62

4-Bromofluorobenzene

Concen: 49.174 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

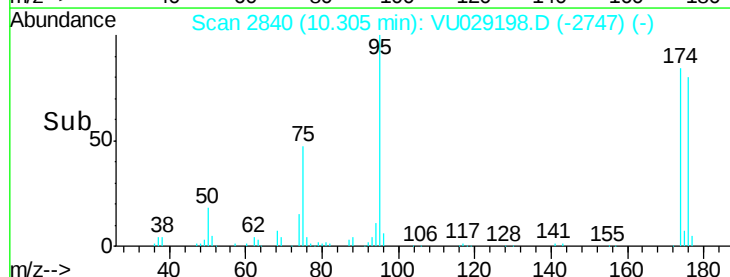
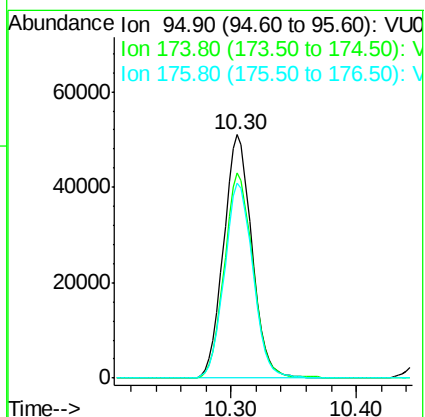
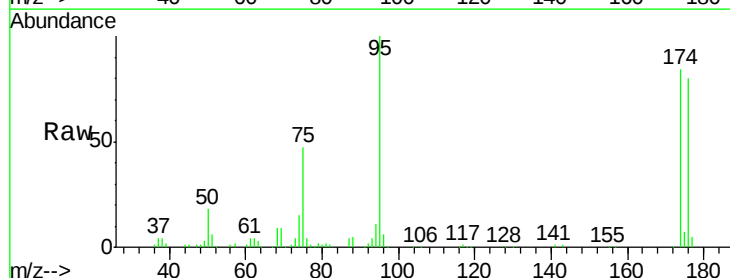
Tgt Ion: 95 Resp: 79637

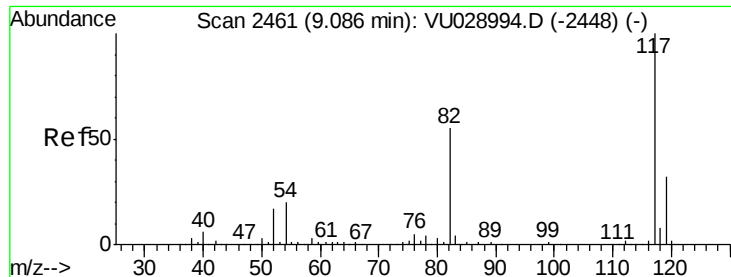
Ion Ratio Lower Upper

95 100

174 85.3 0.0 170.6

176 80.7 0.0 165.0





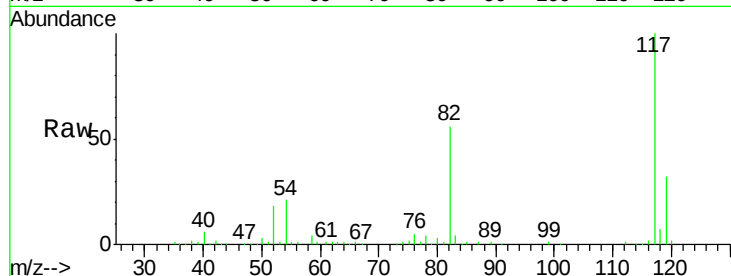
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

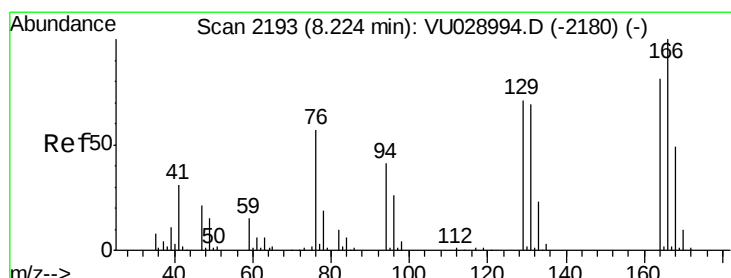
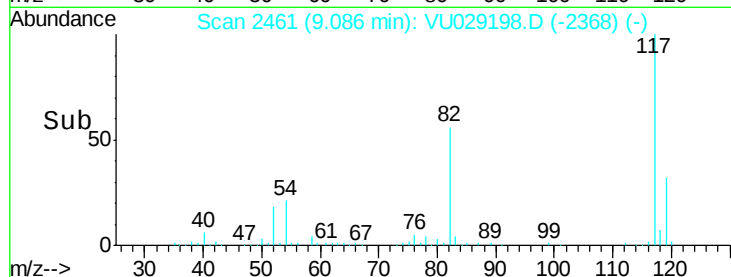
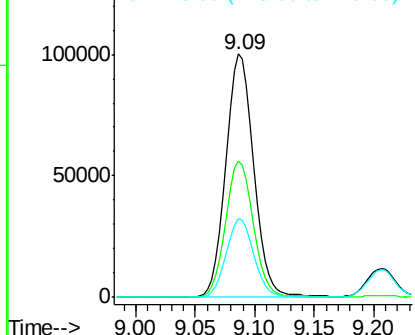
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.9	43.9	65.9
119	32.3	26.0	39.0

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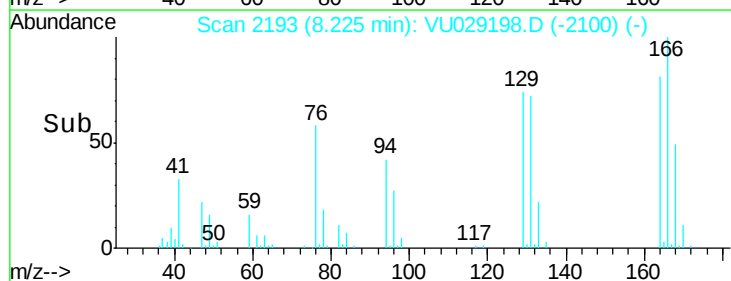
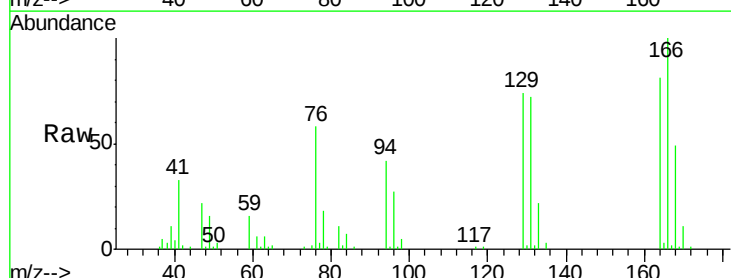
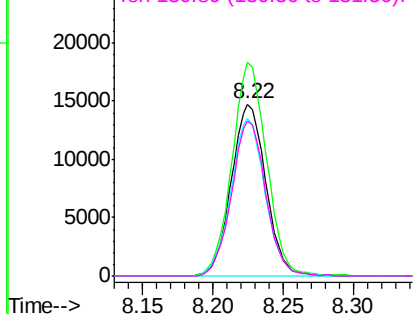
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

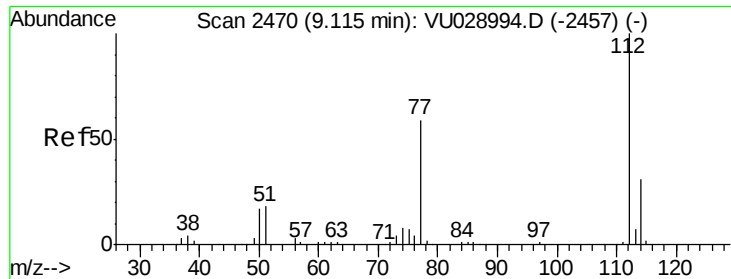


#64
Tetrachloroethene
Concen: 21.423 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.1	99.4	149.0
129	91.5	70.5	105.7
131	90.0	69.0	103.6

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: 20.986 ug/l

RT: 9.12 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion:112 Resp: 77024

Ion Ratio Lower Upper

112 100

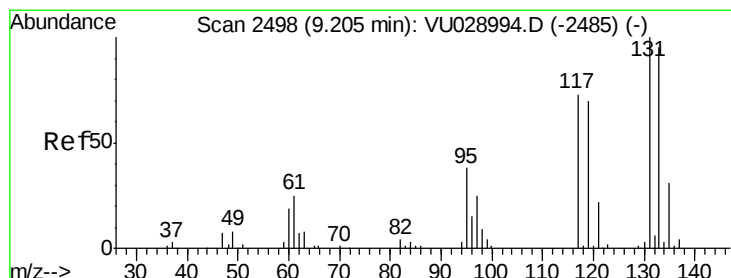
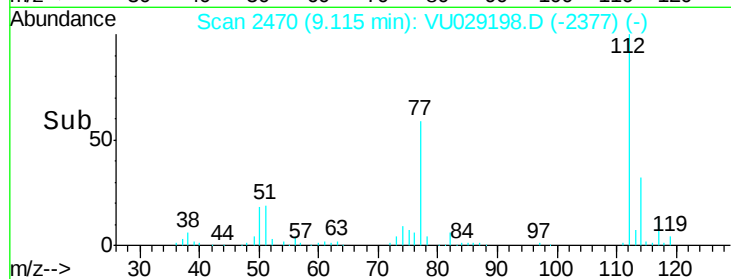
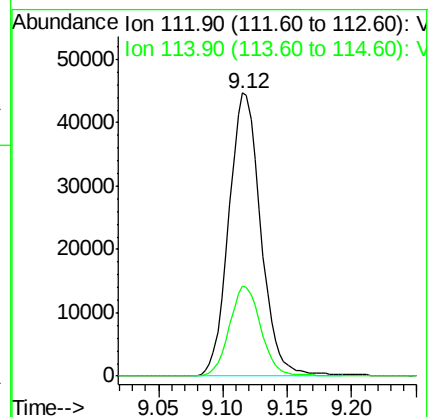
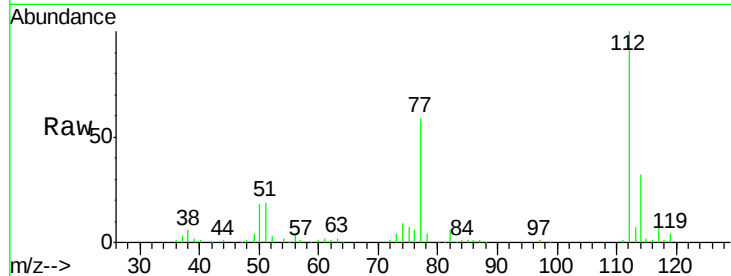
114 31.7 25.0 37.6

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#66

1,1,1,2-Tetrachloroethane

Concen: 22.820 ug/l

RT: 9.21 min Scan# 2498

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

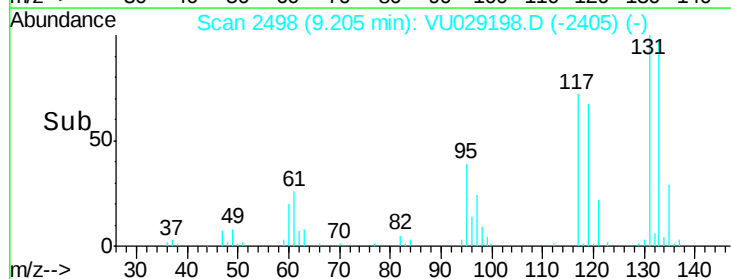
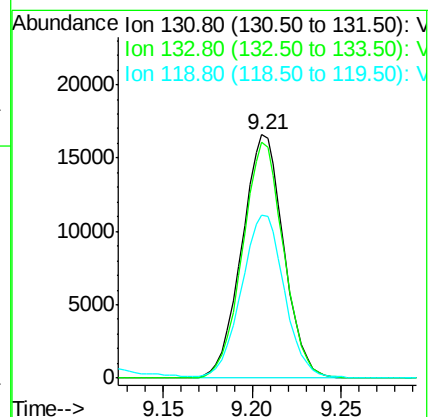
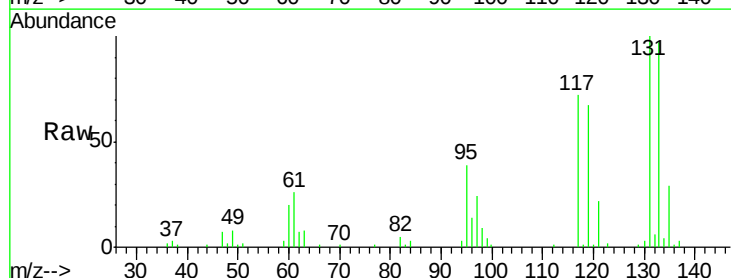
Tgt Ion:131 Resp: 27181

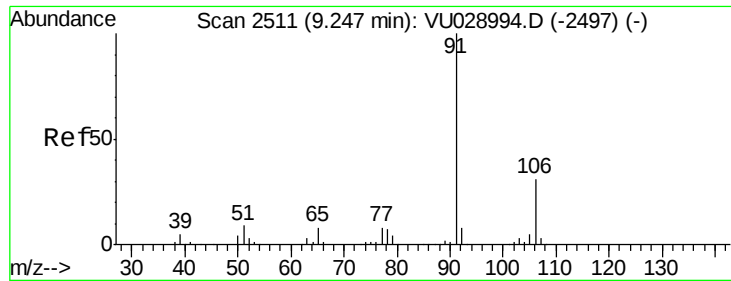
Ion Ratio Lower Upper

131 100

133 95.2 48.2 144.6

119 68.9 35.4 106.3





#67

Ethyl Benzene

Concen: 21.380 ug/l

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 91 Resp: 131010

Ion Ratio Lower Upper

91 100

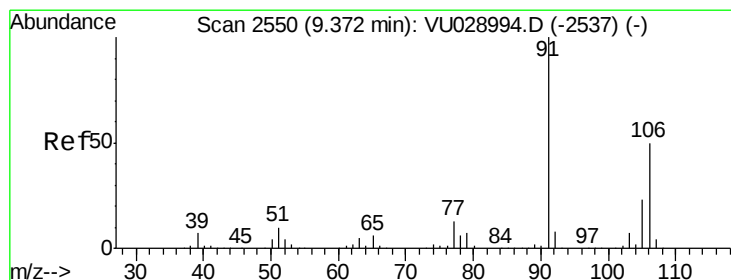
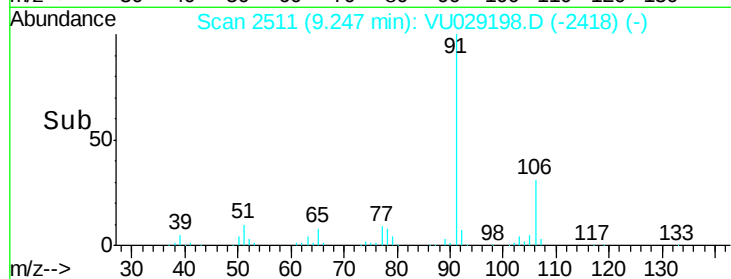
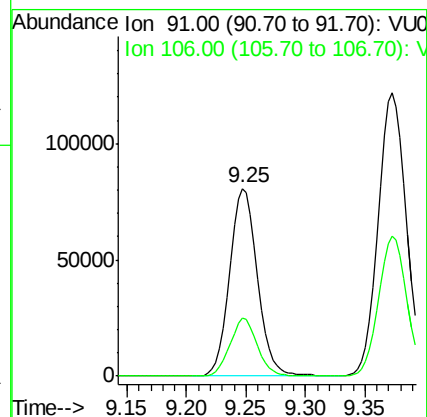
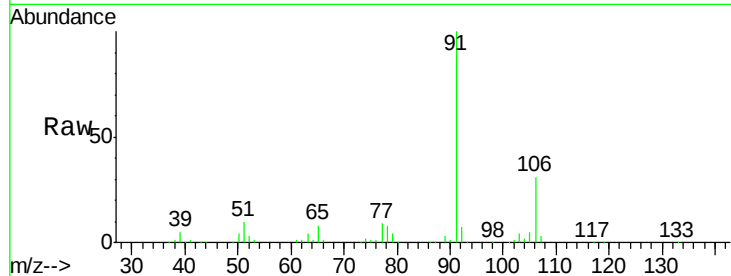
106 31.0 25.0 37.4

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#68

m/p-Xylenes

Concen: 41.767 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU029198.D

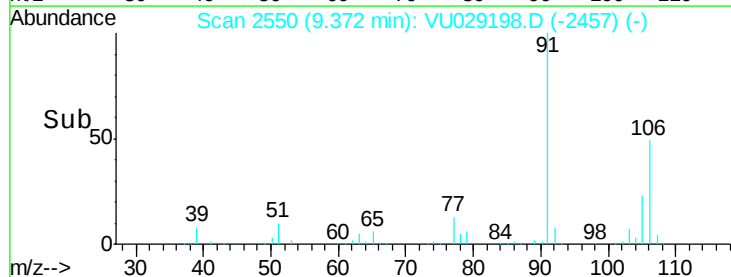
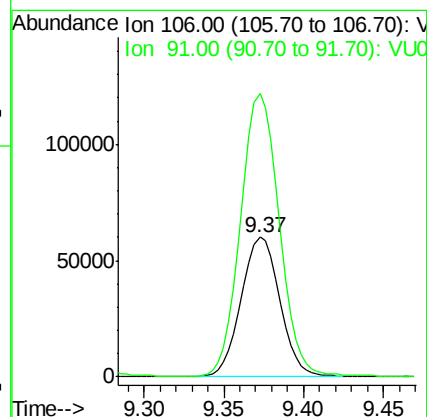
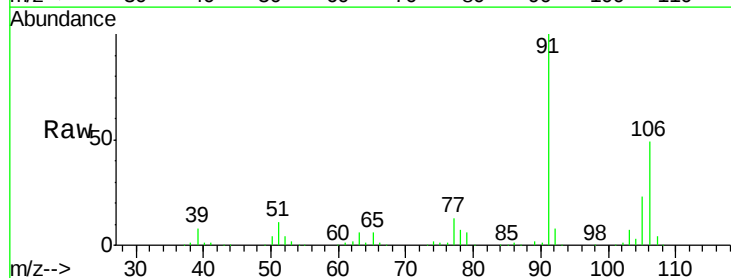
Acq: 16 Jan 2019 10:37

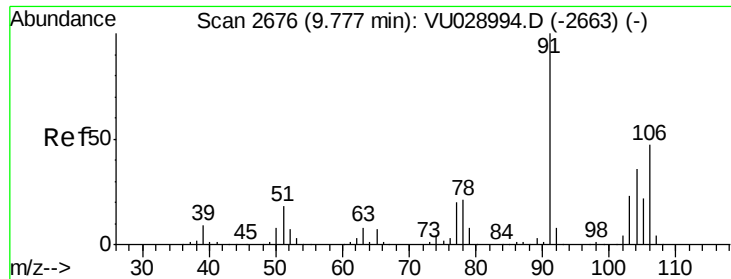
Tgt Ion: 106 Resp: 99446

Ion Ratio Lower Upper

106 100

91 202.5 161.7 242.5





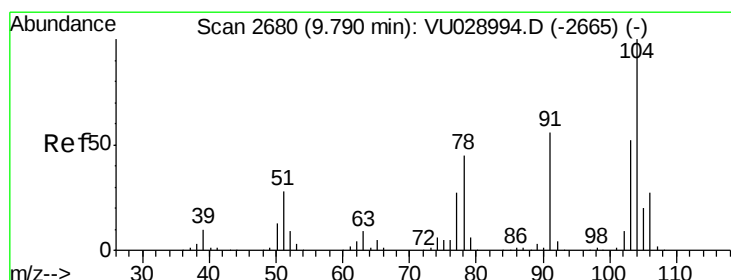
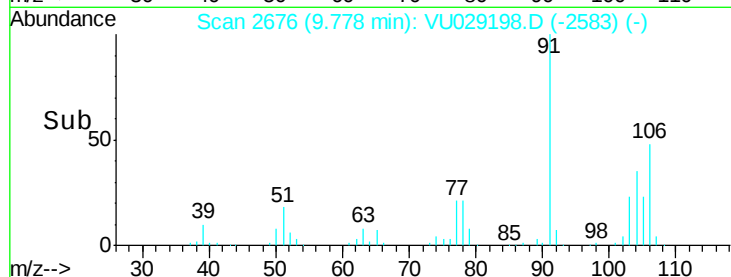
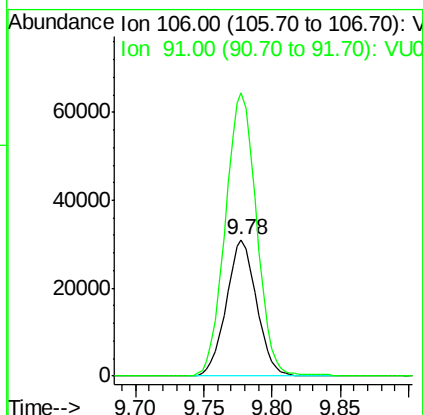
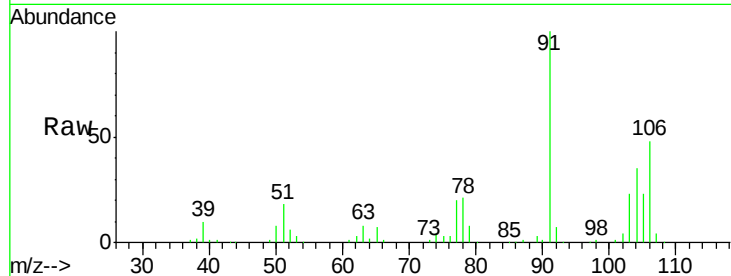
#69
o-Xylene
Concen: 20.919 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampled :
VU0116WBSD01

Tot Ion:106 Resp: 47990
Ion Ratio Lower Upper
106 100
91 214.0 106.1 318.3

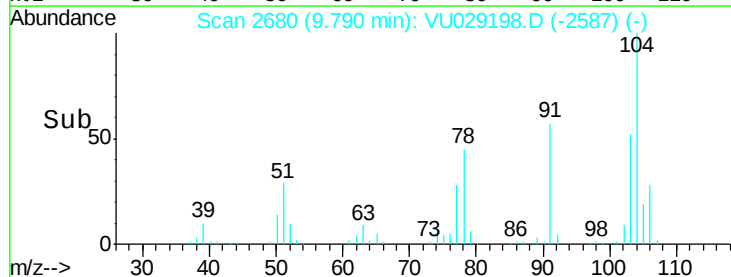
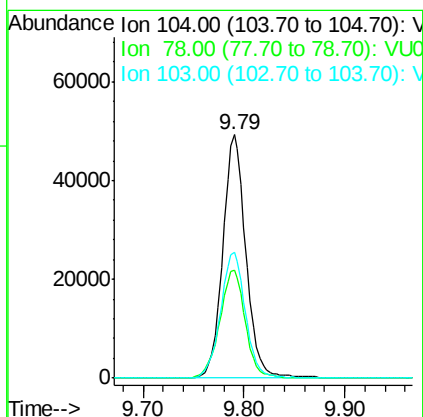
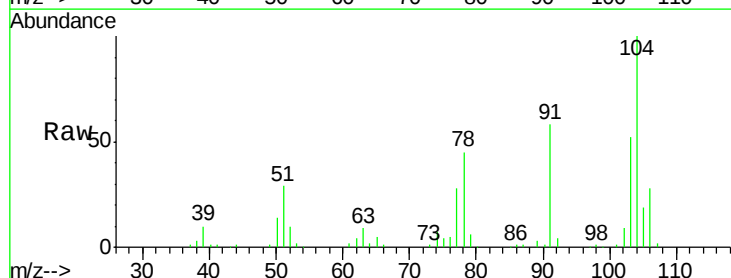
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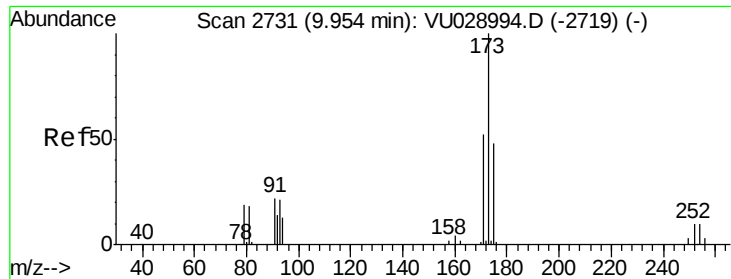
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#70
Styrene
Concen: 21.010 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion:104 Resp: 79016
Ion Ratio Lower Upper
104 100
78 48.6 38.6 58.0
103 55.6 44.5 66.7





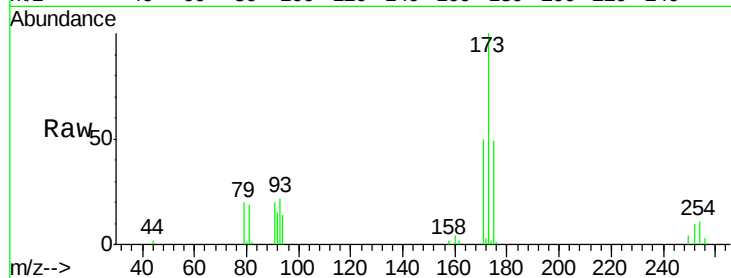
#71
Bromoform
Concen: 22.395 ug/l
RT: 9.95 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

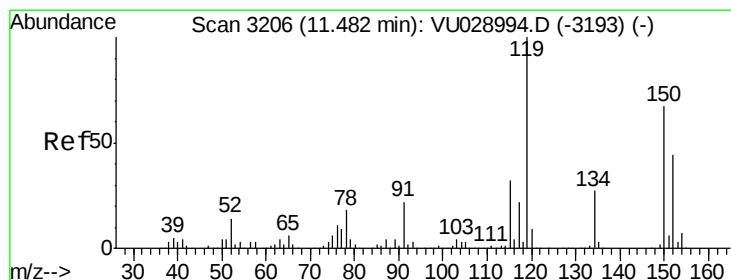
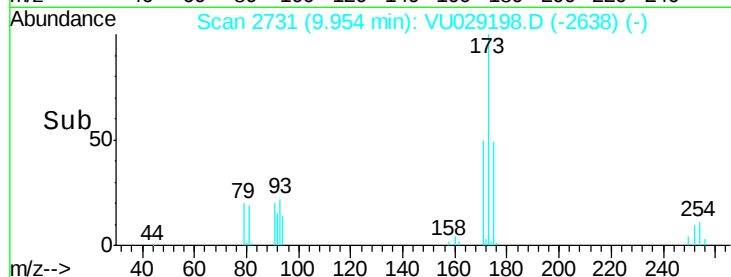
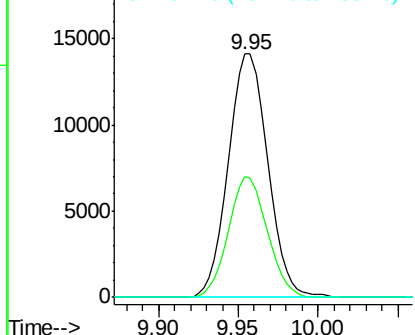
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.8	71.2
254	0.0	0.0	0.0

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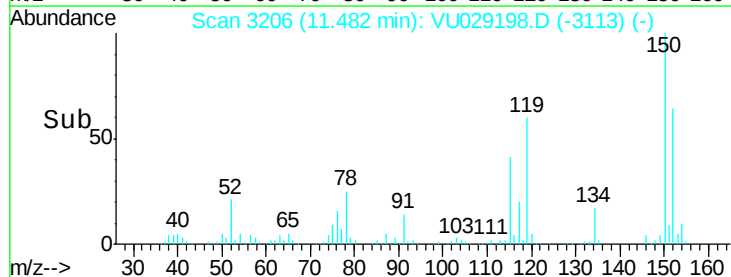
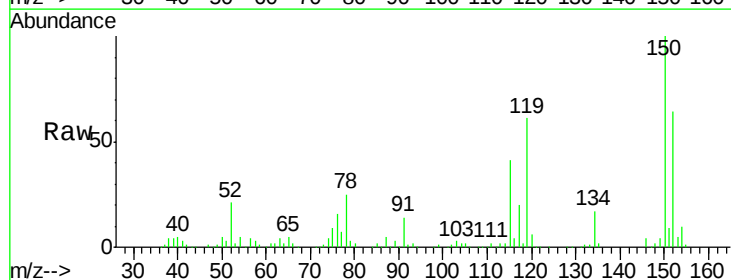
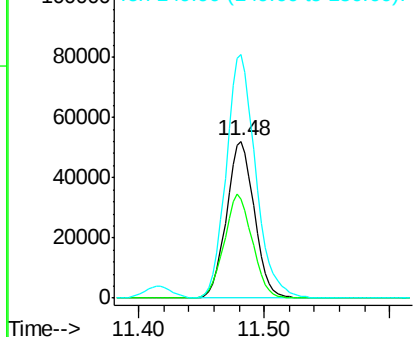
Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

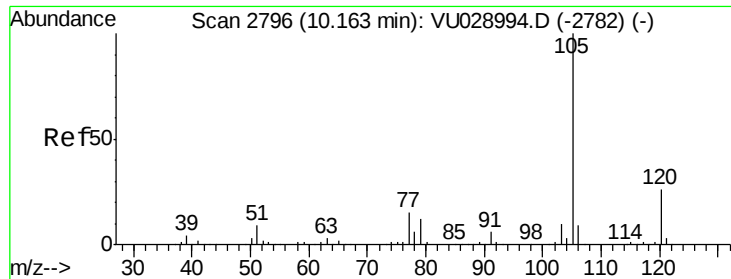


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	67.1	40.1	120.3
150	164.4	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: 21.347 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion:105 Resp: 126884

Ion Ratio Lower Upper

105 100

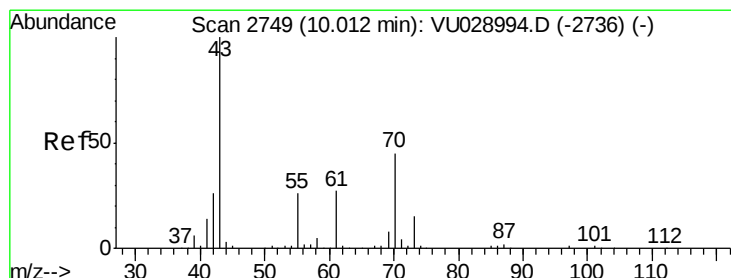
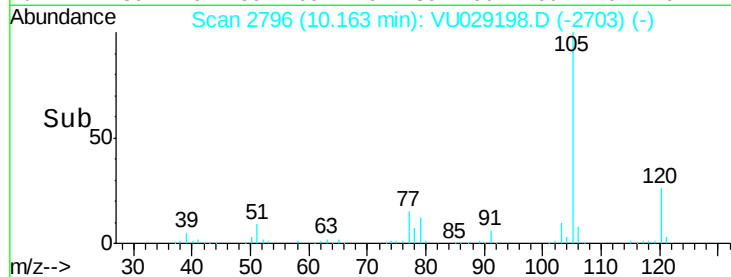
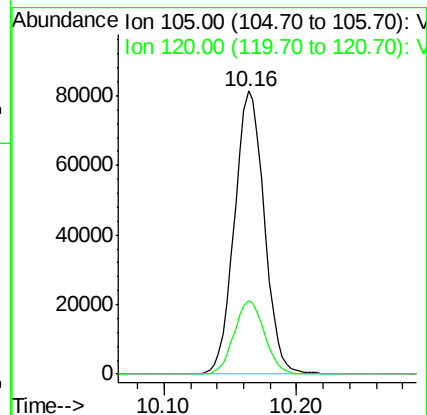
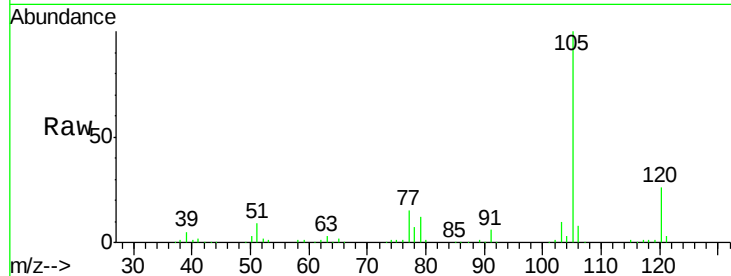
120 26.5 13.2 39.5

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#74

N-ethyl acetate

Concen: 22.174 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Tgt Ion: 43 Resp: 56793

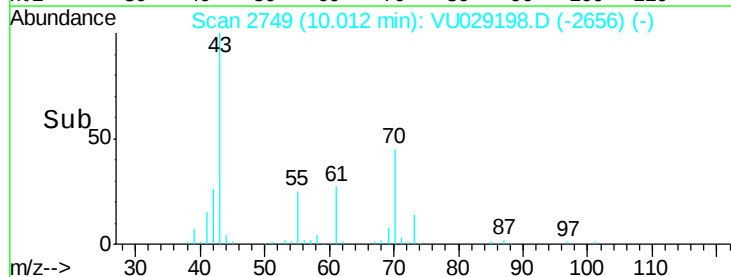
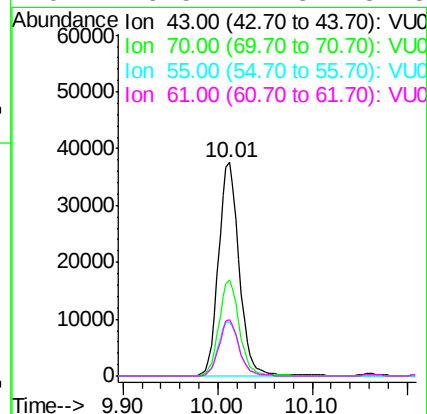
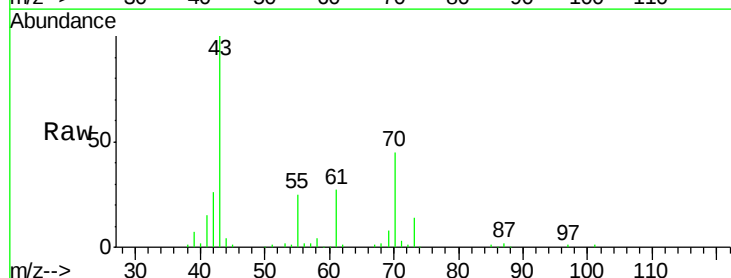
Ion Ratio Lower Upper

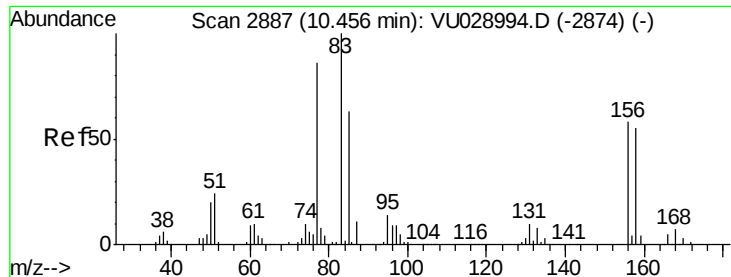
43 100

70 44.4 36.3 54.5

55 26.1 20.5 30.7

61 25.5 21.8 32.8





#75

1,1,2,2-Tetrachloroethane

Concen: 22.017 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

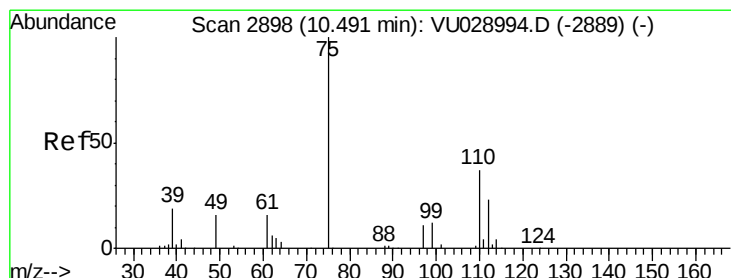
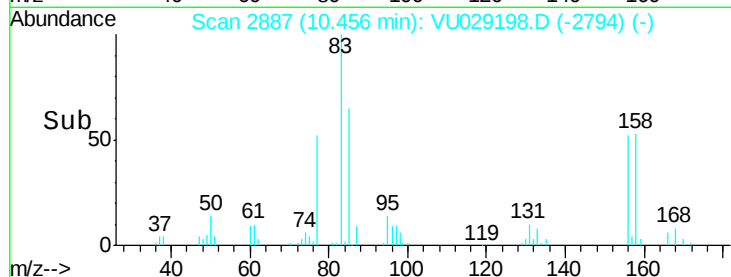
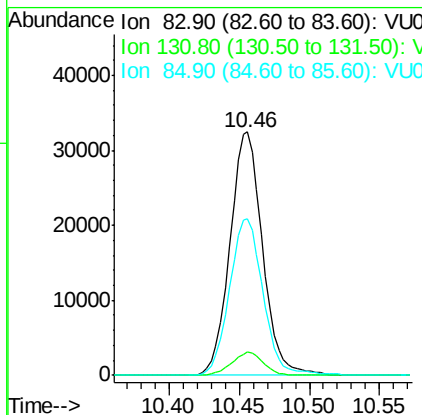
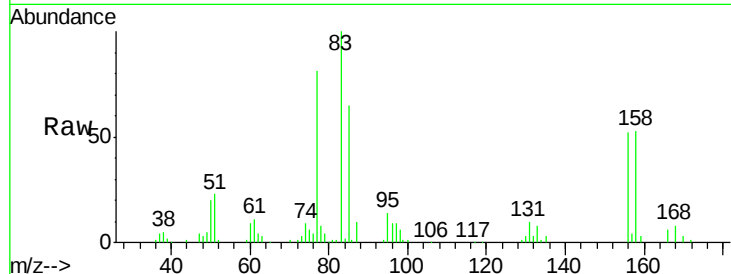
ClientSampleId :

VU0116WBSD01

Tot Ion:	83	Resp:	52450
Ion Ratio	Lower	Upper	
83	100		
131	9.1	4.7	14.1
85	66.4	32.0	96.2

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#76

1,2,3-Trichloropropane

Concen: 22.890 ug/l m

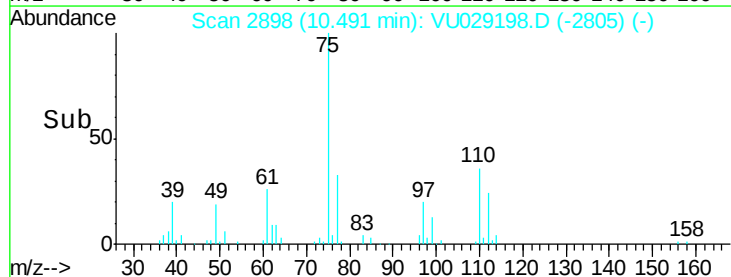
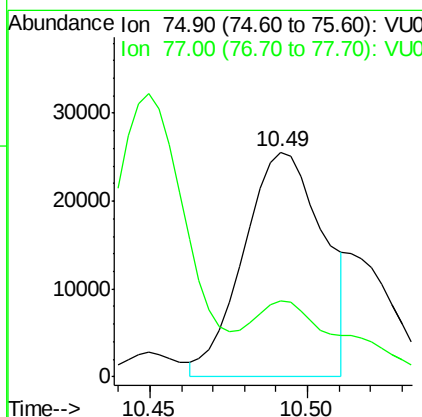
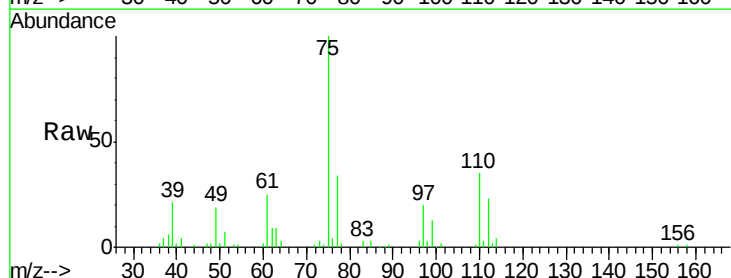
RT: 10.49 min Scan# 2898

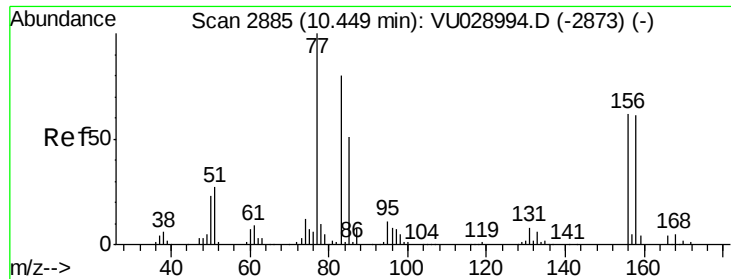
Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Tgt Ion:	75	Resp:	45037
Ion Ratio	Lower	Upper	
75	100		
77	39.7	20.9	62.8





#77

Bromobenzene

Concen: 20.678 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion:156 Resp: 32029

Ion Ratio Lower Upper

156 100

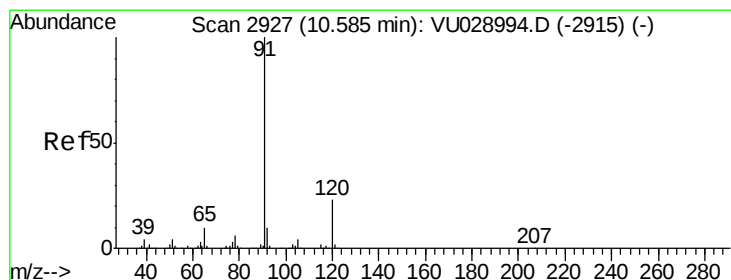
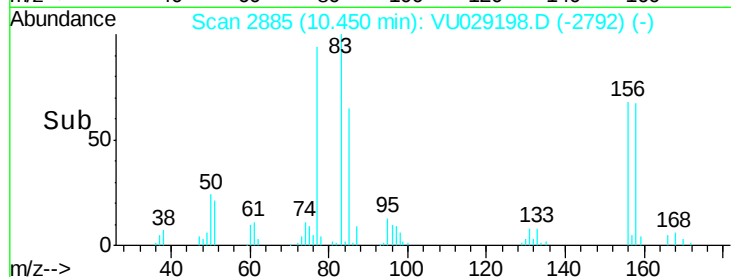
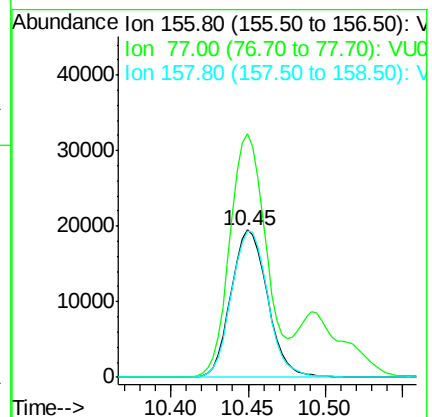
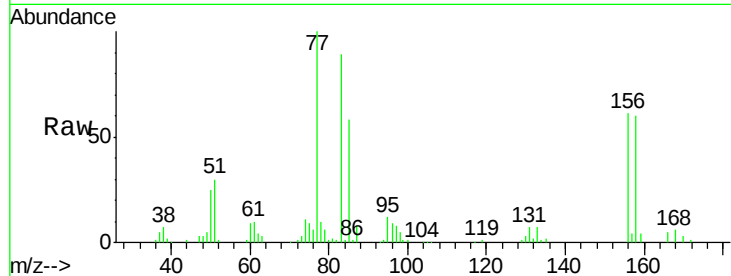
77 162.4 79.0 237.2

158 99.0 48.9 146.6

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#78

n-propylbenzene

Concen: 21.657 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. 0.00 min

Lab File: VU029198.D

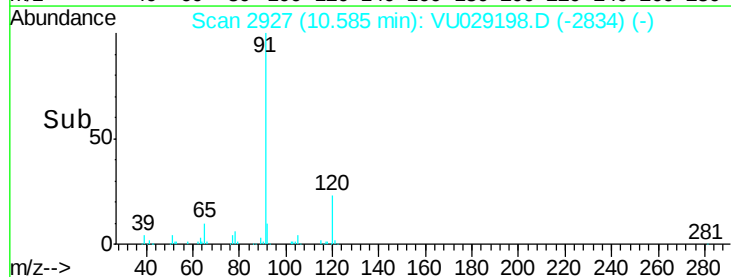
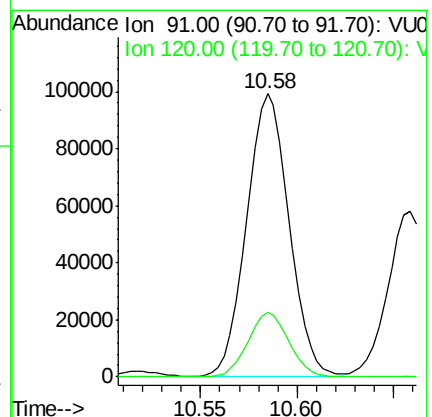
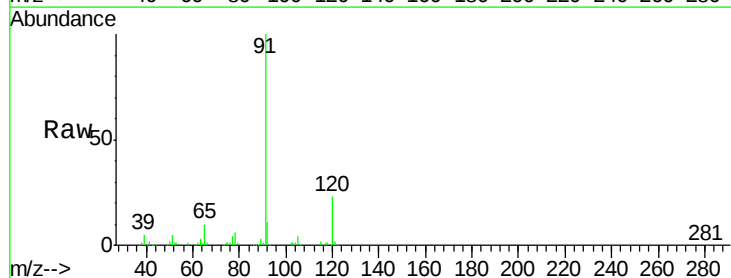
Acq: 16 Jan 2019 10:37

Tgt Ion: 91 Resp: 151702

Ion Ratio Lower Upper

91 100

120 21.9 11.3 33.9





#79

2-Chlorotoluene

Concen: 21.427 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 91 Resp: 91046

Ion Ratio Lower Upper

91 100

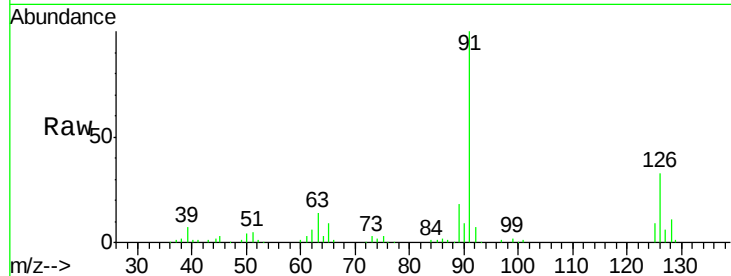
126 33.1 16.8 50.4

Manual Integrations

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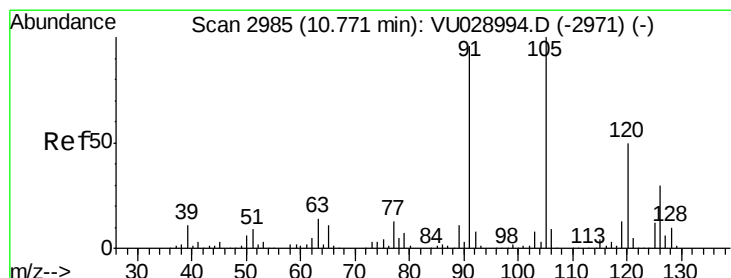
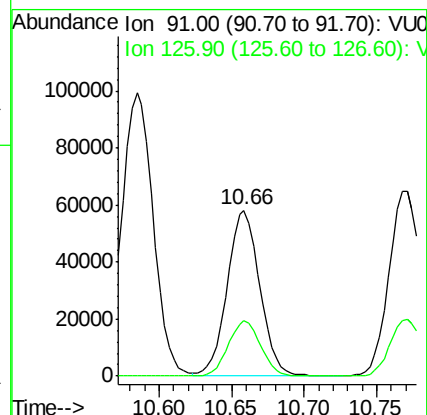
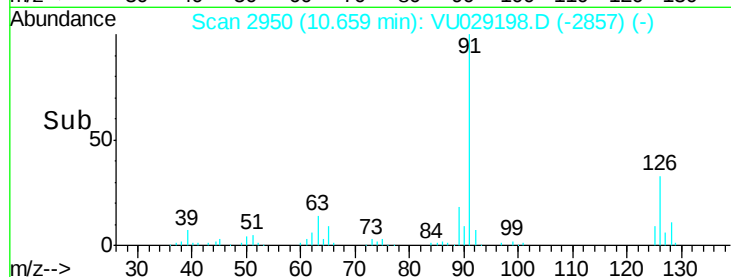
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Abundance Ion 91.00 (90.70 to 91.70): VU028994.D (-2939) (-)

Ion 125.90 (125.60 to 126.60): VU028994.D (-2939) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.565 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029198.D

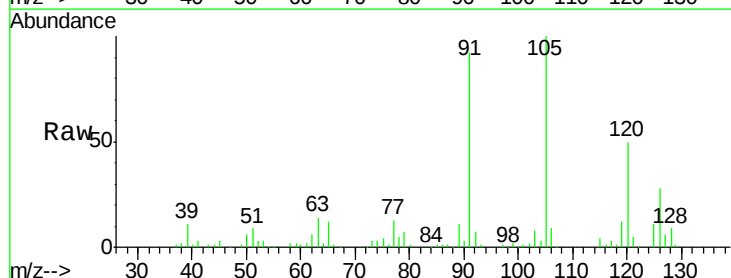
Acq: 16 Jan 2019 10:37

Tgt Ion: 105 Resp: 107040

Ion Ratio Lower Upper

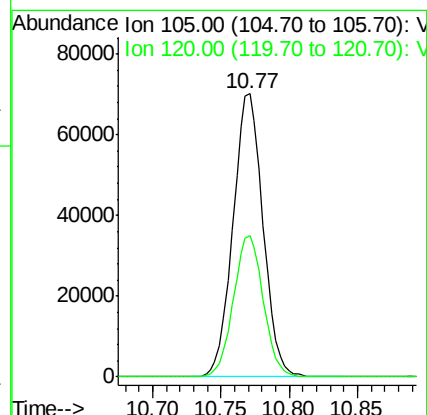
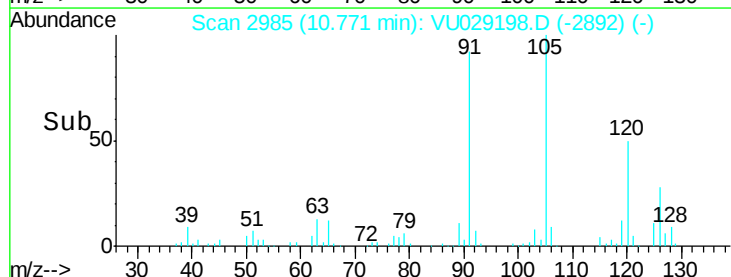
105 100

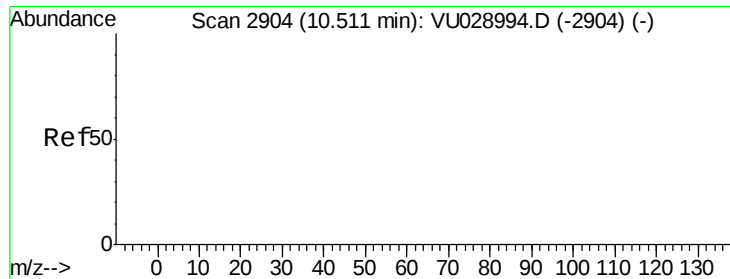
120 49.7 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VU028994.D (-2971) (-)

Ion 120.00 (119.70 to 120.70): VU028994.D (-2971) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.259 ug/l

RT: 10.51 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U

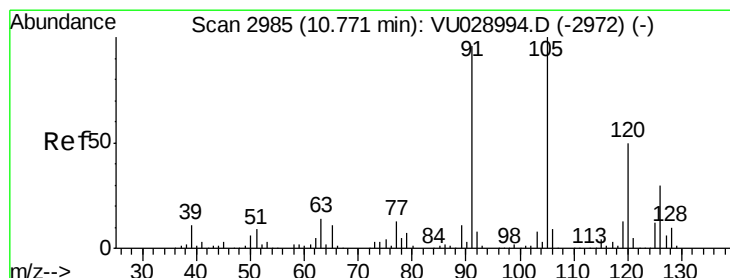
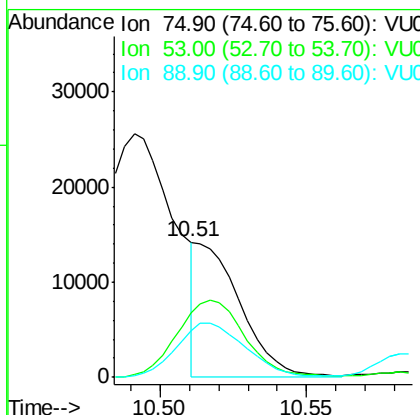
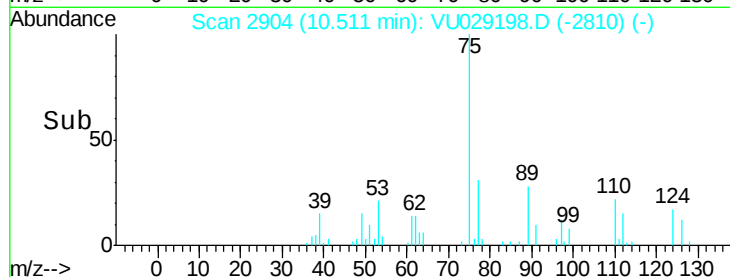
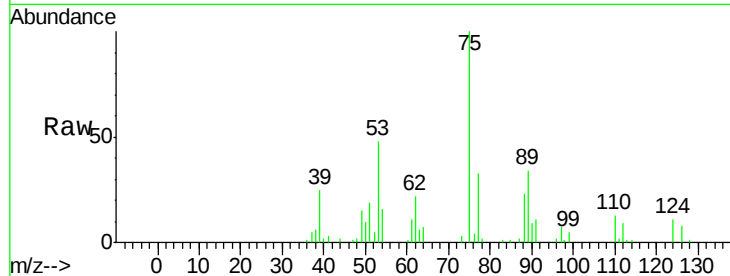
ClientSampleId :
VU0116WBSD01

Tot Ion: 75 Resp: 14693

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

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#82

4-Chlorotoluene

Concen: 21.108 ug/l

RT: 10.77 min Scan# 2984

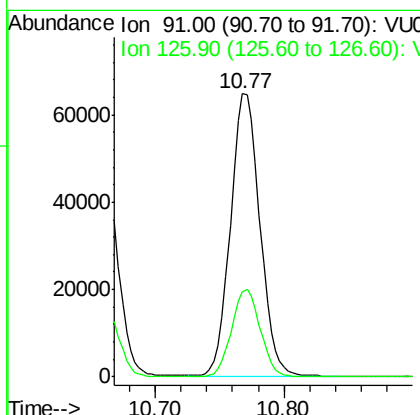
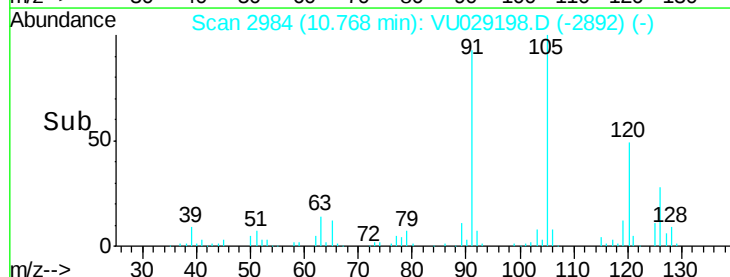
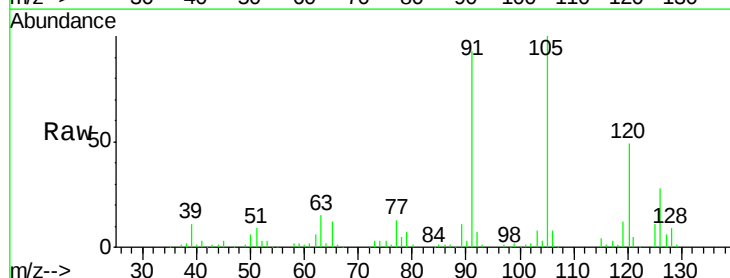
Delta R.T. -0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Tgt Ion: 91 Resp: 102844

Ion	Ratio	Lower	Upper
91	100		
126	30.1	15.5	46.5





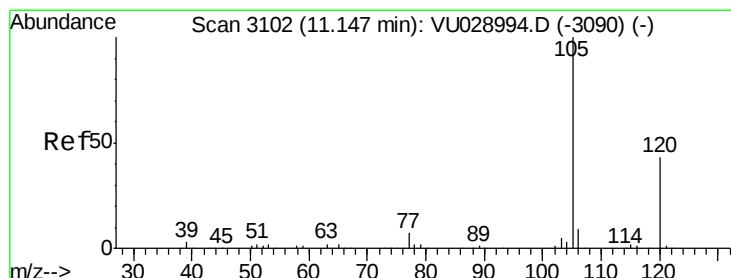
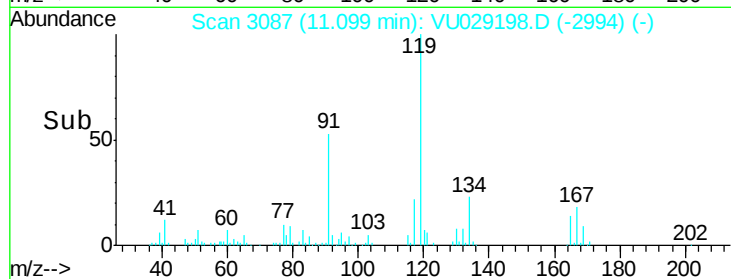
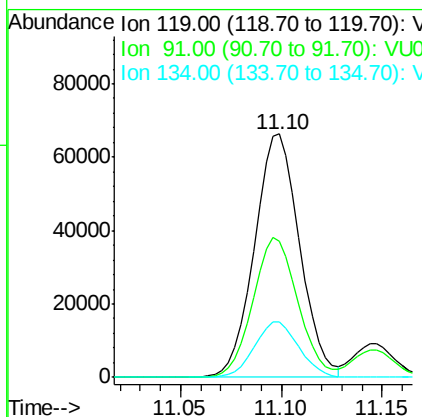
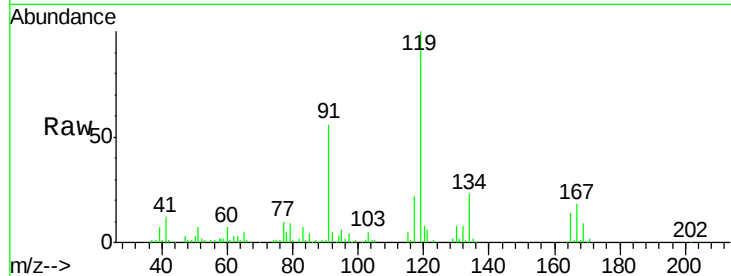
#83
tert-Butylbenzene
Concen: 21.223 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	56.9	28.2	84.6
134	22.3	11.3	33.8

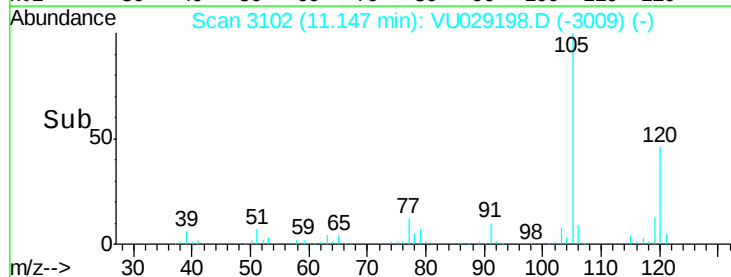
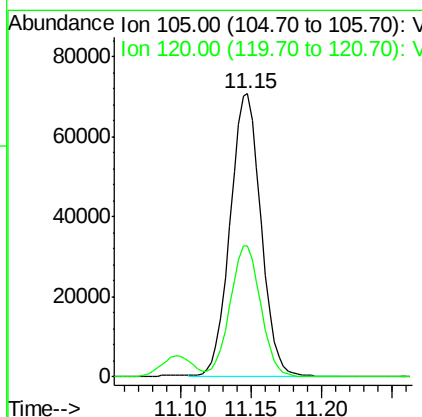
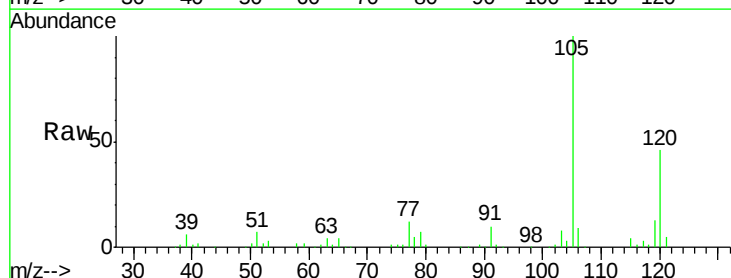
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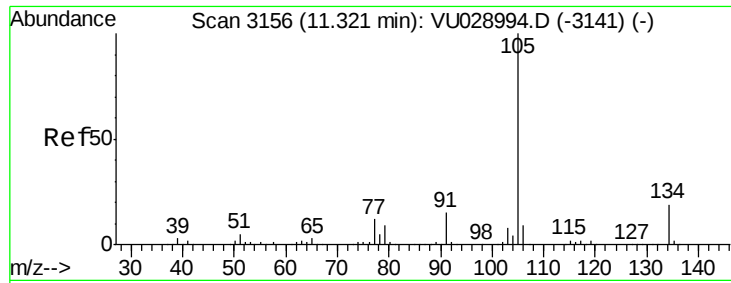
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#84
1,2,4-Trimethylbenzene
Concen: 21.914 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.1	69.3





#85

sec-Butylbenzene

Concen: 21.782 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion:105 Resp: 128874

Ion Ratio Lower Upper

105 100

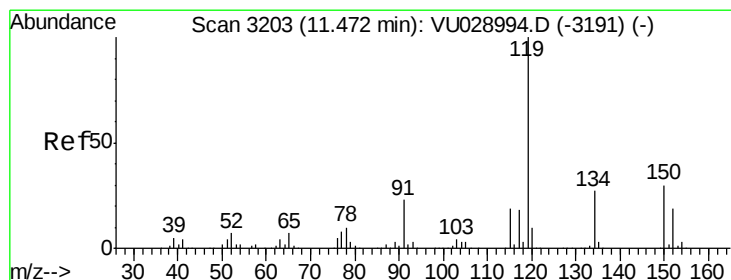
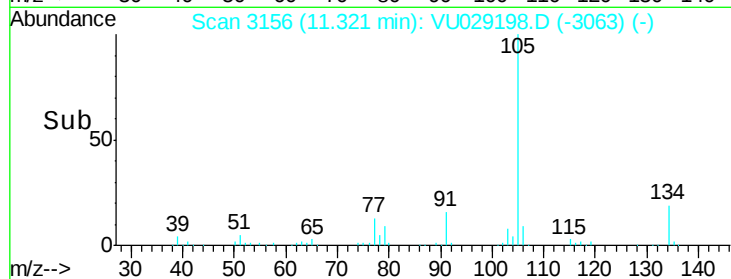
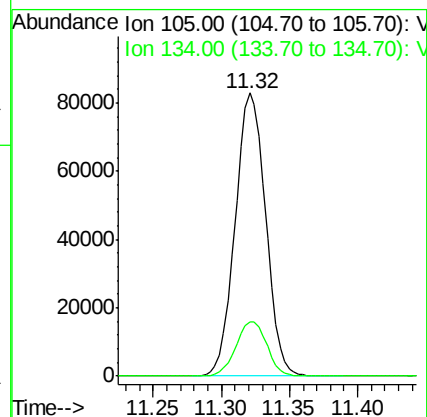
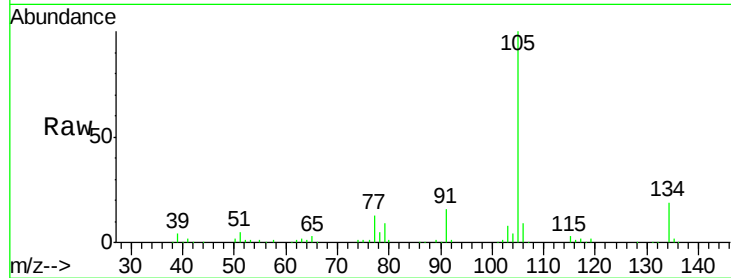
134 19.3 9.7 29.1

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#86

p-Isopropyltoluene

Concen: 21.610 ug/l

RT: 11.47 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

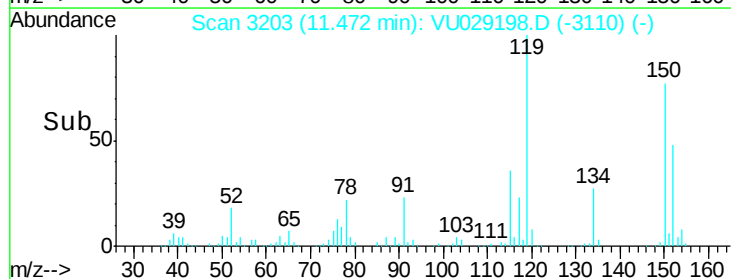
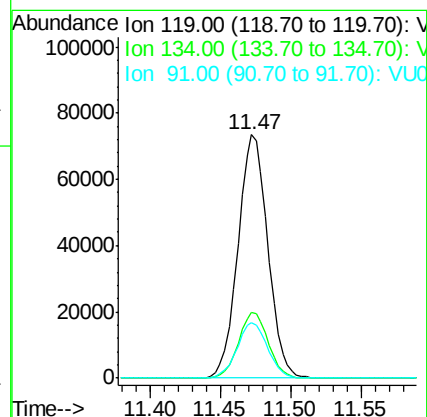
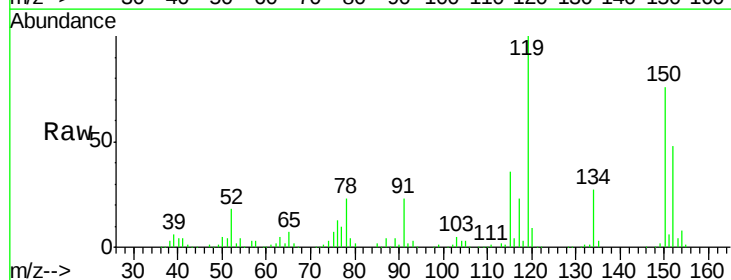
Tgt Ion:119 Resp: 108951

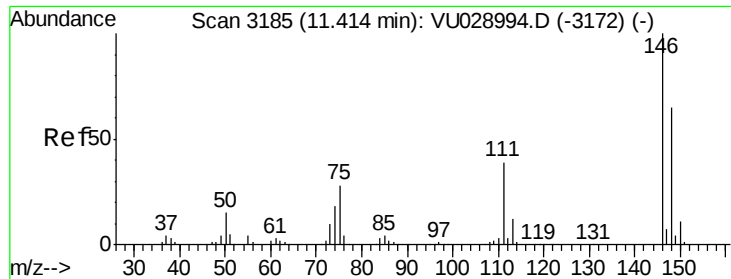
Ion Ratio Lower Upper

119 100

134 26.8 13.5 40.4

91 23.4 11.3 33.8





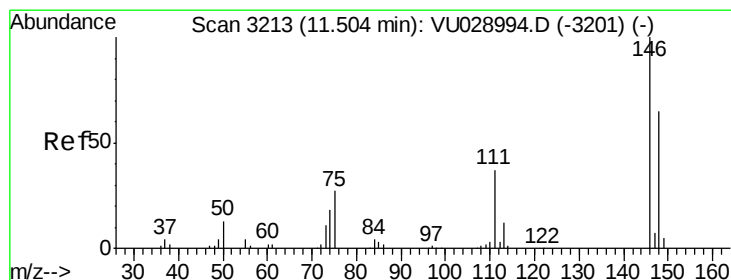
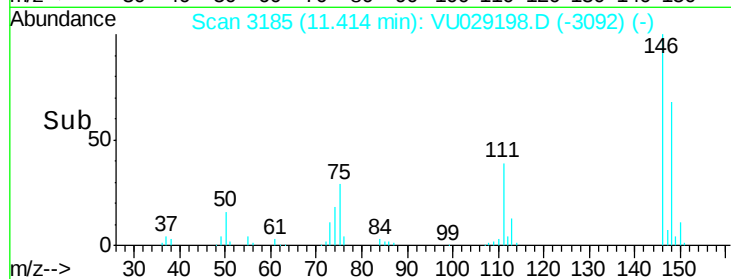
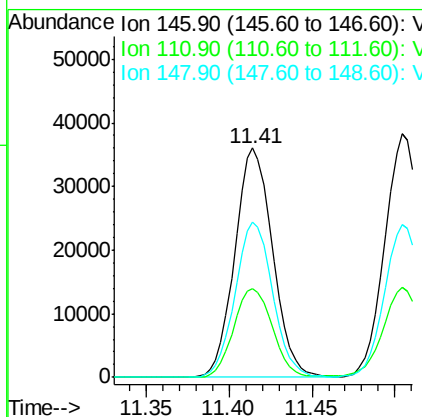
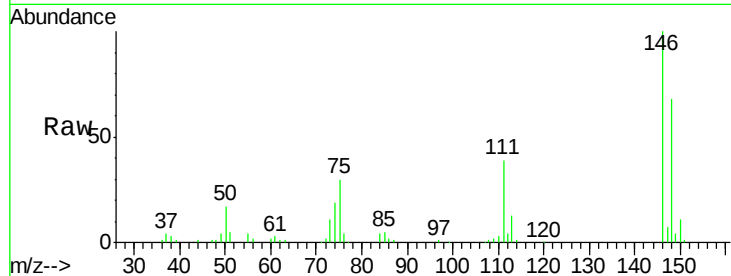
#87
 1,3-Dichlorobenzene
 Concen: 20.168 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.3	57.8
148	67.1	32.5	97.5

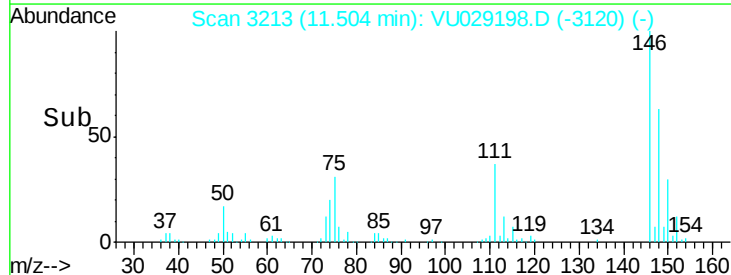
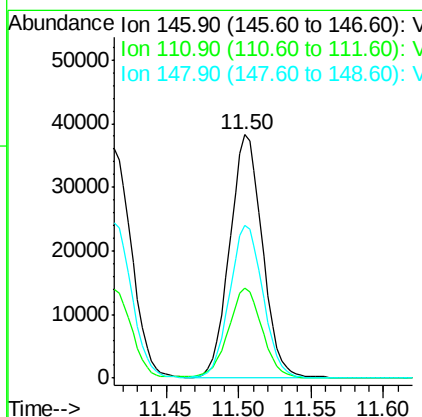
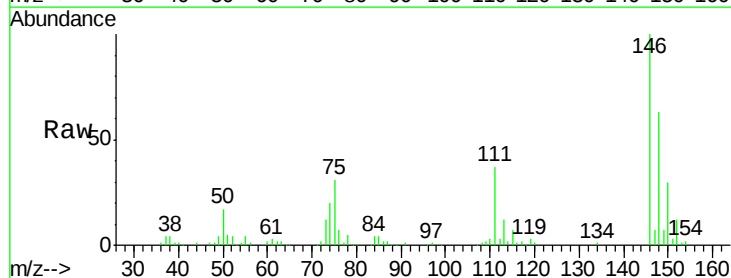
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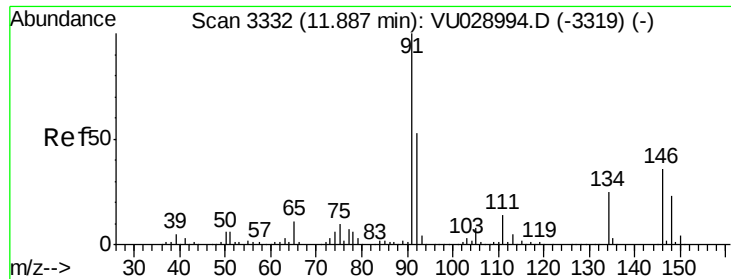
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#88
 1,4-Dichlorobenzene
 Concen: 20.427 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.1	57.3
148	64.2	32.6	98.0





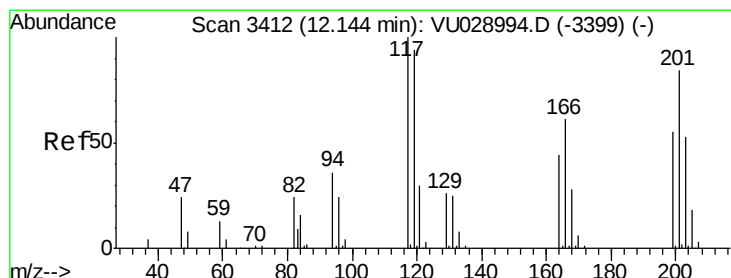
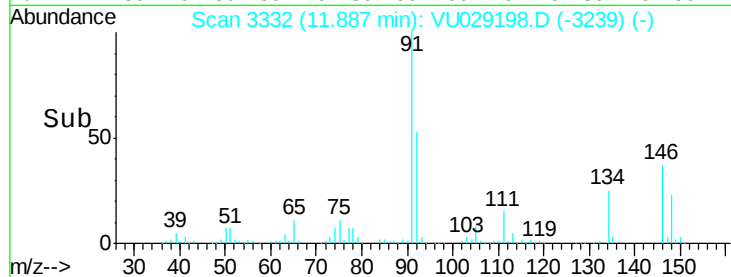
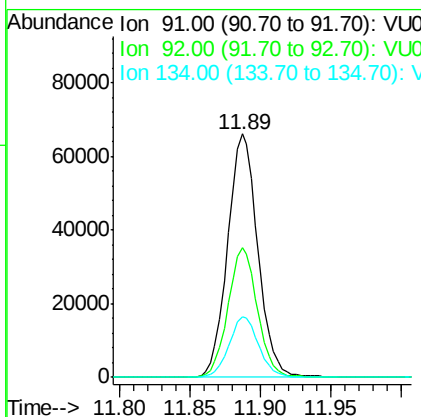
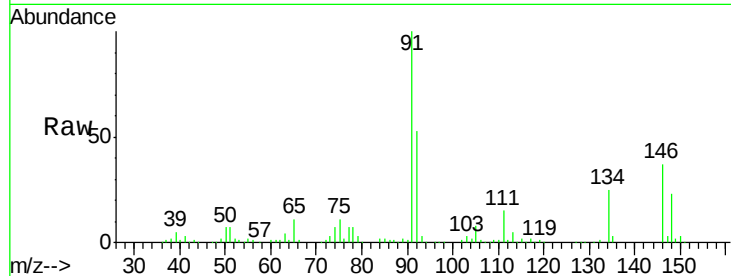
#89
n-Butylbenzene
Concen: 22.023 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.8	26.2	78.5
134	24.5	12.6	37.6

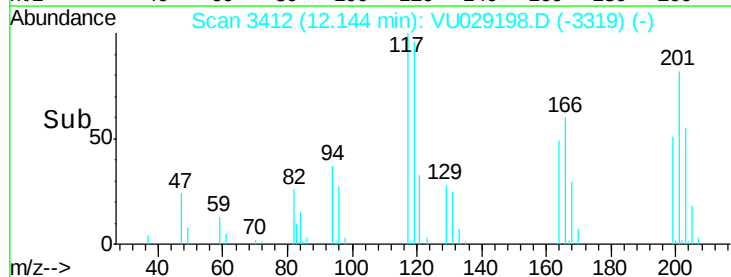
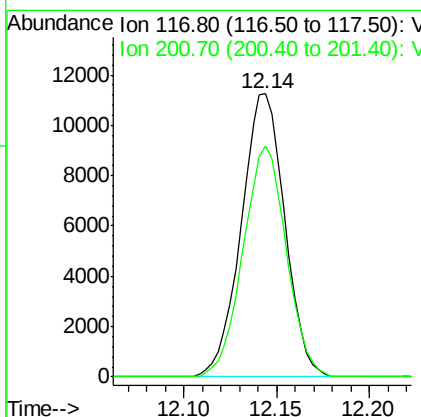
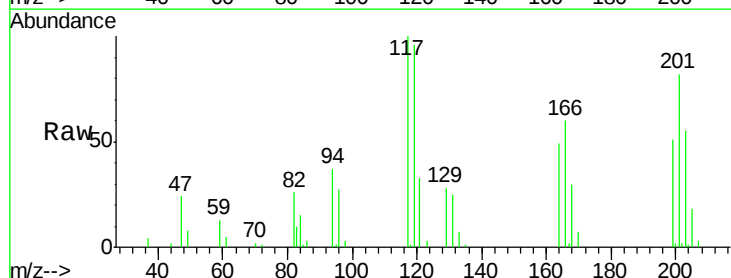
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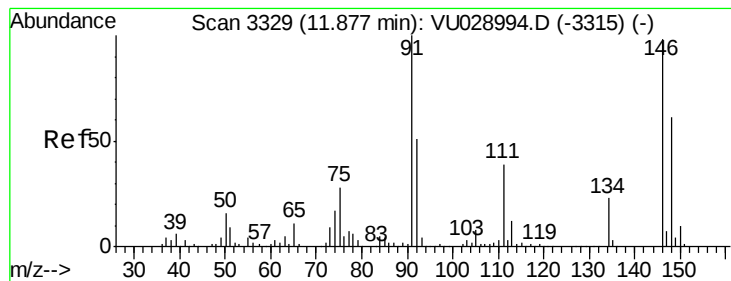
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#90
Hexachloroethane
Concen: 21.727 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU029198.D
Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.0	42.4	127.3





#91

1,2-Dichlorobenzene

Concen: 20.611 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBSD01

Tot Ion: 146 Resp: 58983

Ion Ratio Lower Upper

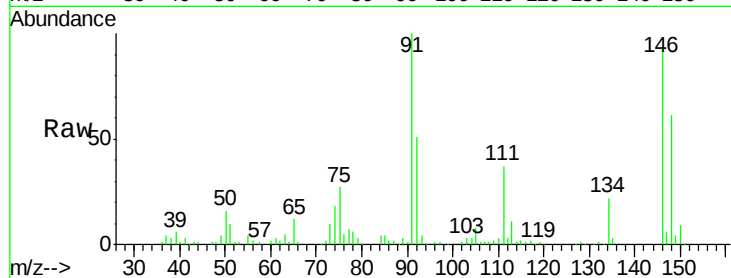
146 100

111 41.1 20.0 59.9

148 64.0 31.6 94.8

Manual Integrations
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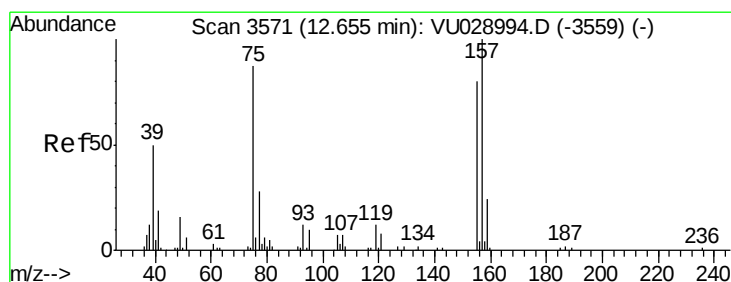
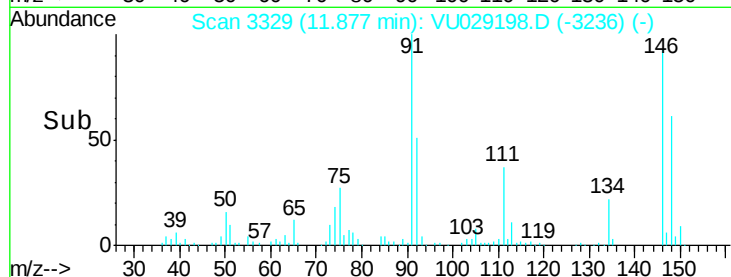
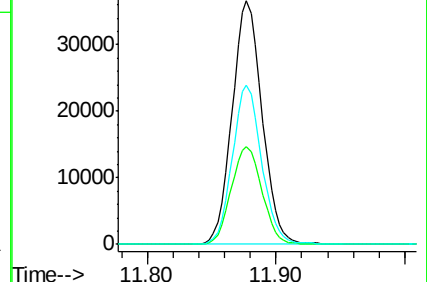
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Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 23.087 ug/l

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

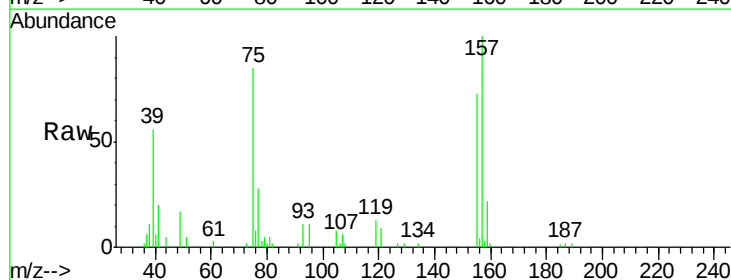
Tgt Ion: 75 Resp: 10578

Ion Ratio Lower Upper

75 100

155 86.8 46.3 138.8

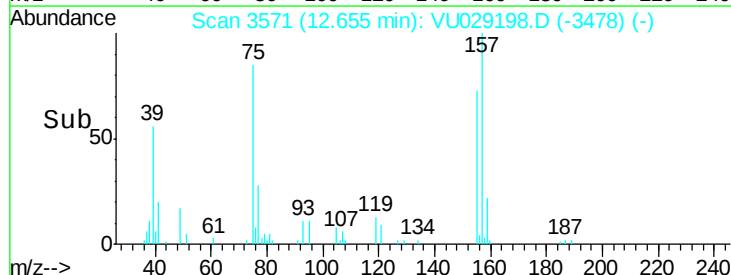
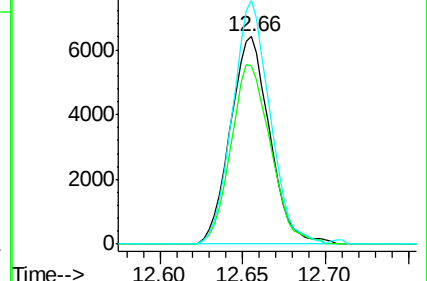
157 111.5 57.4 172.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





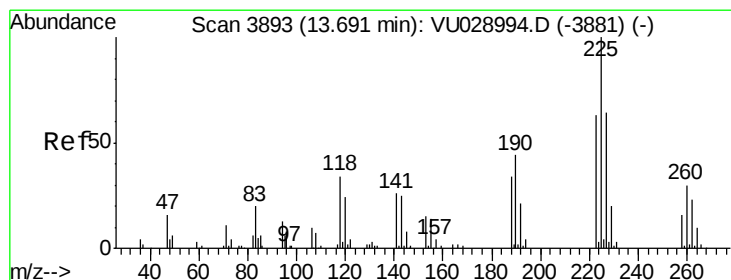
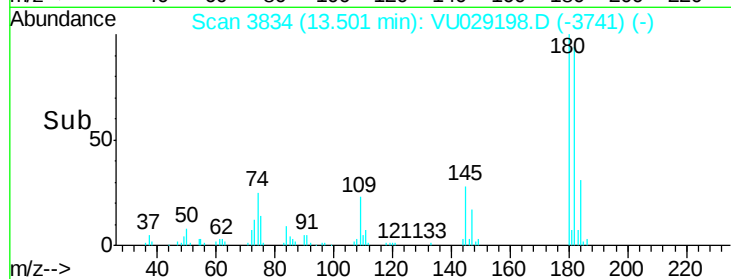
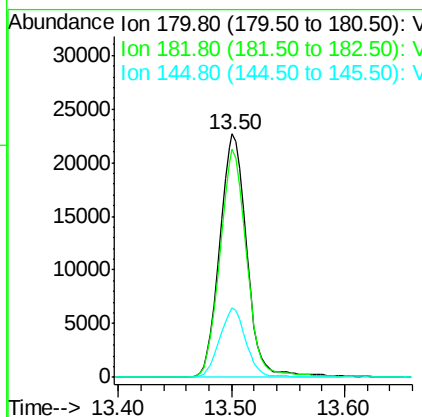
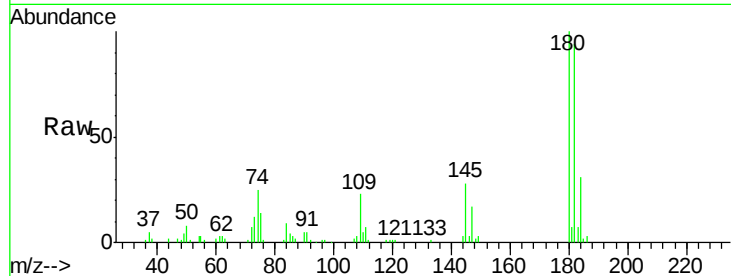
#93
 1,2,4-Trichlorobenzene
 Concen: 20.677 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.5	142.6
145	27.5	14.0	42.0

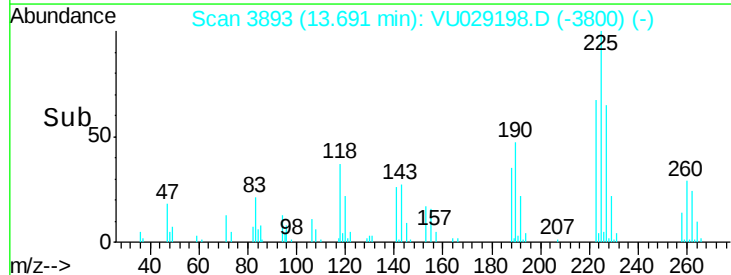
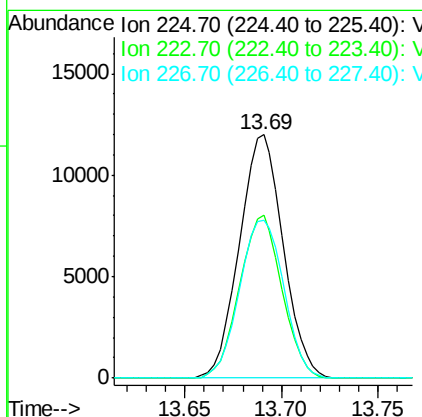
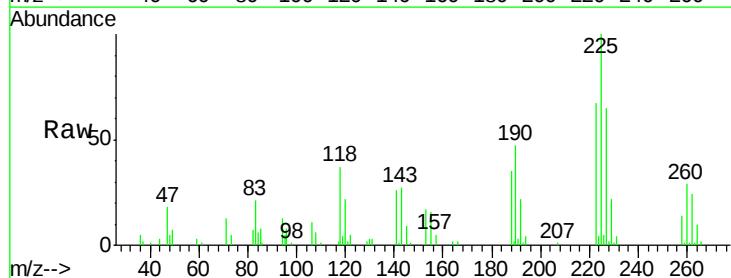
Manual Integrations
 APPROVED

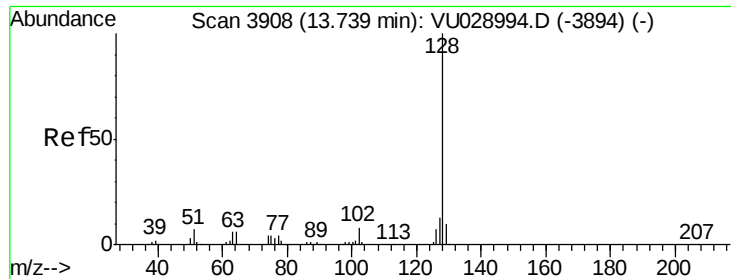
MMDadoda
 1/17/2019 9:43:36 AM



#94
 Hexachlorobutadiene
 Concen: 22.548 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU029198.D
 Acq: 16 Jan 2019 10:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.4	94.0
227	65.8	31.9	95.5





#95

Naphthalene

Concen: 19.529 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Instrument :

MSVOA_U

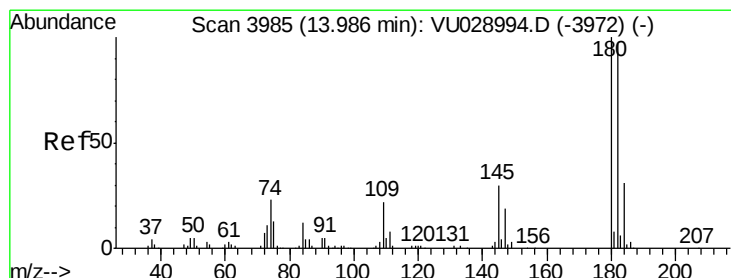
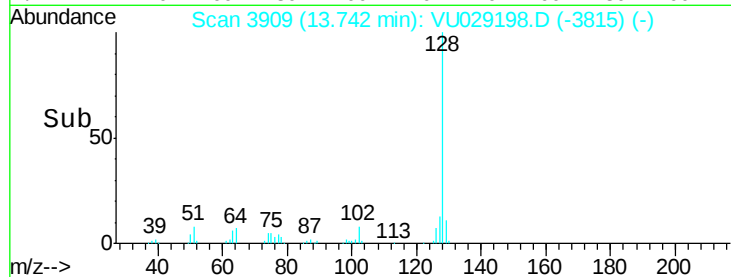
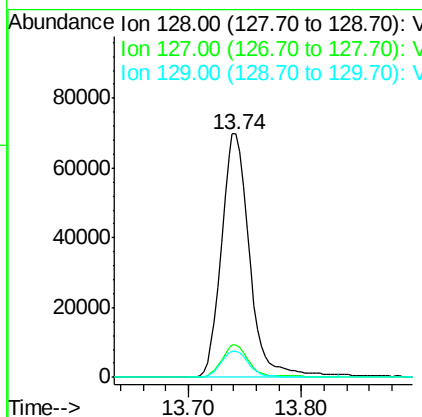
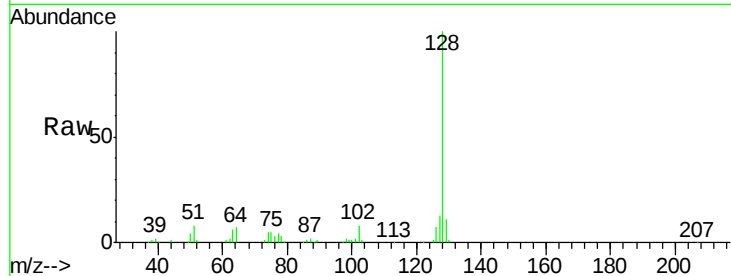
ClientSampleId :

VU0116WBSD01

Tot Ion:	128	Resp:	121359
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.1	15.1
129	10.4	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/17/2019 9:43:36 AM



#96

1,2,3-Trichlorobenzene

Concen: 21.407 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU029198.D

Acq: 16 Jan 2019 10:37

Tgt Ion:	180	Resp:	39411
Ion Ratio	Lower	Upper	
180	100		
182	94.6	48.1	144.3
145	30.6	14.8	44.4

