

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011619\
 Data File : VU029197.D
 Acq On : 16 Jan 2019 10:13
 Operator : JC/SP
 Sample : VU0116WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 9:43:31 AM

Quant Time: Jan 17 01:07:26 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	110477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	174726	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	165021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	82062	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	70106	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
35) Dibromofluoromethane	4.88	113	60240	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
50) Toluene-d8	7.56	98	229689	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
62) 4-Bromofluorobenzene	10.30	95	80837	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.21	85	20854	19.034	ug/l	99
3) Chloromethane	1.33	50	31329	17.461	ug/l	98
4) Vinyl Chloride	1.40	62	30963	19.177	ug/l	98
5) Bromomethane	1.62	94	17326	18.988	ug/l	97
6) Chloroethane	1.69	64	18842	19.592	ug/l	100
7) Trichlorofluoromethane	1.88	101	34836	19.801	ug/l	99
8) Diethyl Ether	2.10	74	17147	20.287	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.28	101	21301	18.095	ug/l	99
10) Methyl Iodide	2.41	142	19903	17.982	ug/l	97
11) Tert butyl alcohol	2.83	59	36246	104.412	ug/l	99
12) 1,1-Dichloroethene	2.28	96	20005	17.459	ug/l	96
13) Acrolein	2.19	56	19602	75.199	ug/l	98
14) Allyl chloride	2.59	41	39859	18.959	ug/l	93
15) Acrylonitrile	2.93	53	90670	106.462	ug/l	98
16) Acetone	2.32	43	90432	105.111	ug/l	95
17) Carbon Disulfide	2.48	76	67973	17.553	ug/l	99
18) Methyl Acetate	2.61	43	46333	23.161	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	81606	20.258	ug/l	99
20) Methylene Chloride	2.70	84	28838	19.742	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	25809	19.388	ug/l	99
22) Diisopropyl ether	3.57	45	87738	21.116	ug/l	95
23) Vinyl Acetate	3.52	43	352180	103.681	ug/l	98
24) 1,1-Dichloroethane	3.44	63	51152	21.326	ug/l	99
25) 2-Butanone	4.26	43	130780	112.545	ug/l	99
26) 2,2-Dichloropropane	4.22	77	40953	21.130	ug/l	99
27) cis-1,2-Dichloroethene	4.22	96	29363	20.167	ug/l	97
28) Bromochloromethane	4.54	49	22719	22.120	ug/l	95
29) Tetrahydrofuran	4.63	42	76439	108.457	ug/l	97
30) Chloroform	4.67	83	48954	21.428	ug/l	96
31) Cyclohexane	4.99	56	46515	19.867	ug/l	96
32) 1,1,1-Trichloroethane	4.91	97	38953	20.635	ug/l	98
36) 1,1-Dichloropropene	5.13	75	34672	19.853	ug/l	100
37) Ethyl Acetate	4.38	43	42996	22.429	ug/l	98
38) Carbon Tetrachloride	5.13	117	31834	21.854	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	42576	19.830	ug/l	99
40) Benzene	5.39	78	112870	20.719	ug/l	100
41) Methacrylonitrile	4.54	41	23058	22.470	ug/l	99
42) 1,2-Dichloroethane	5.40	62	36708	22.424	ug/l	98
43) Isopropyl Acetate	5.55	43	65821	22.383	ug/l	98
44) Trichloroethene	6.18	130	27572	20.427	ug/l	99
45) 1,2-Dichloropropane	6.43	63	31418	21.839	ug/l	100
46) Dibromomethane	6.56	93	19589	21.300	ug/l	98
47) Bromodichloromethane	6.75	83	37905	22.386	ug/l	97
48) Methyl methacrylate	6.62	41	31916	22.289	ug/l	99
49) 1,4-Dioxane	6.61	88	15771	464.755	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	223170	111.511	ug/l	99
52) Toluene	7.63	92	70014	21.111	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	42596	20.942	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	46193	21.017	ug/l	98
55) 1,1,2-Trichloroethane	8.06	97	29587	22.269	ug/l	99
56) Ethyl methacrylate	8.02	69	41999	20.519	ug/l	97
57) 1,3-Dichloropropane	8.24	76	49410	21.734	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.12	63	89462	99.383	ug/l	99
59) 2-Hexanone	8.36	43	175129	111.478	ug/l	98
60) Dibromochloromethane	8.47	129	29505	22.416	ug/l	100
61) 1,2-Dibromoethane	8.58	107	30252	20.995	ug/l	97
64) Tetrachloroethene	8.22	164	24332	20.469	ug/l	98
65) Chlorobenzene	9.12	112	76303	20.628	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	26248	21.866	ug/l	100
67) Ethyl Benzene	9.25	91	127194	20.596	ug/l	100
68) m/p-Xylenes	9.37	106	98436	41.023	ug/l	99
69) o-Xylene	9.78	106	48202	20.848	ug/l	98
70) Styrene	9.79	104	77948	20.565	ug/l	99
71) Bromoform	9.96	173	23216	21.720	ug/l #	98
73) Isopropylbenzene	10.16	105	124264	20.458	ug/l	99
74) N-amyl acetate	10.01	43	53654	20.499	ug/l	97
75) 1,1,2,2-Tetrachloroethane	10.46	83	50692	20.823	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	43322m	21.546	ug/l	
77) Bromobenzene	10.45	156	32601	20.596	ug/l	100
78) n-propylbenzene	10.58	91	149797	20.927	ug/l	99
79) 2-Chlorotoluene	10.66	91	90343	20.806	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	104117	20.527	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	14564m	18.681	ug/l	
82) 4-Chlorotoluene	10.77	91	102129	20.512	ug/l	99
83) tert-Butylbenzene	11.10	119	103330	20.669	ug/l	99
84) 1,2,4-Trimethylbenzene	11.14	105	105839	20.900	ug/l	99
85) sec-Butylbenzene	11.32	105	127670	21.116	ug/l	99
86) p-Isopropyltoluene	11.47	119	108456	21.051	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	59514	20.498	ug/l	97
88) 1,4-Dichlorobenzene	11.50	146	59206	19.755	ug/l	99
89) n-Butylbenzene	11.89	91	100974	21.958	ug/l	97
90) Hexachloroethane	12.14	117	18575	21.431	ug/l	98
91) 1,2-Dichlorobenzene	11.88	146	57621	19.704	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.66	75	9926	21.200	ug/l	95

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Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	37511	20.094	ug/l	99
94) Hexachlorobutadiene	13.69	225	19396	22.716	ug/l	100
95) Naphthalene	13.74	128	114959	18.103	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	38546	20.522	ug/l	100

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

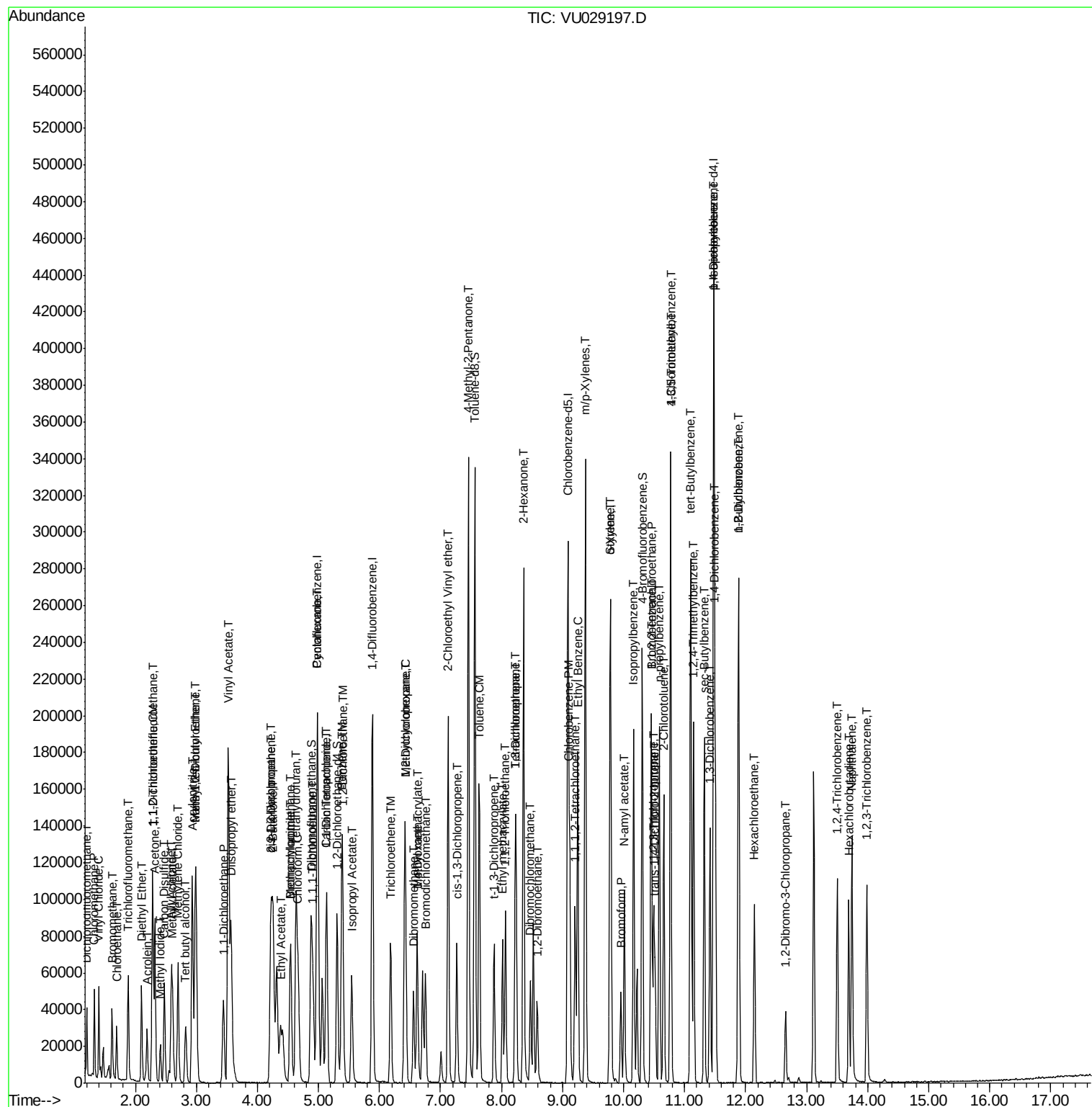
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU011619\
Data File : VU029197.D
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Operator : JC/SP
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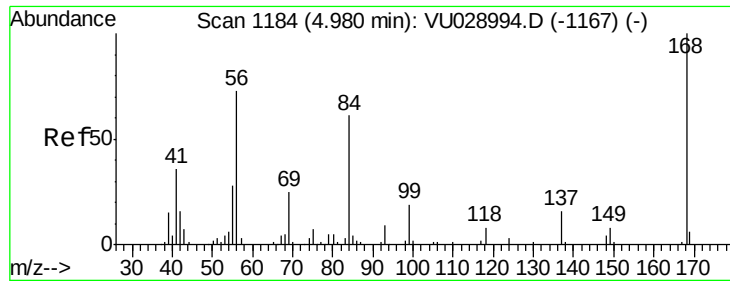
Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion:168 Resp: 110477

Ion Ratio Lower Upper

168 100

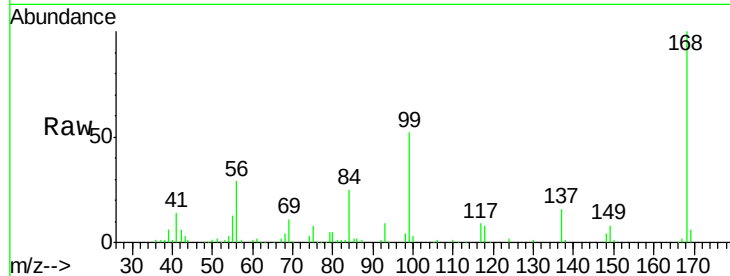
99 51.7 42.0 63.0

Manual Integrations

APPROVED

MMDadoda

1/17/2019 9:43:31 AM



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

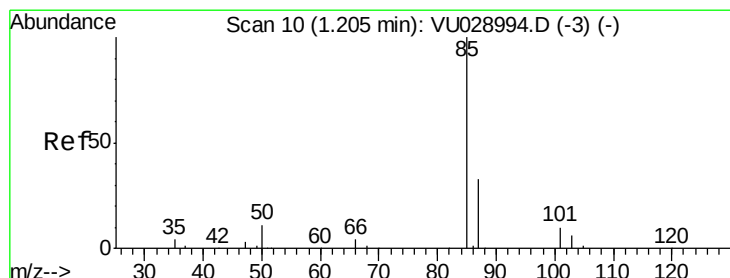
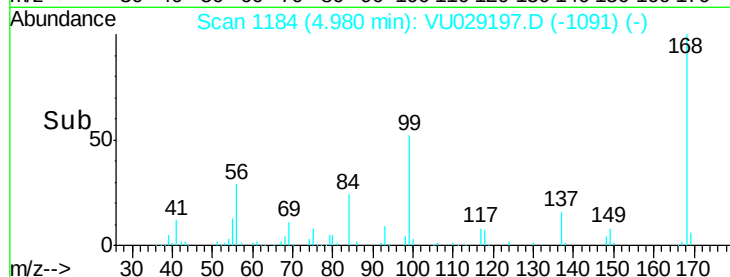
20000

10000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.034 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU029197.D

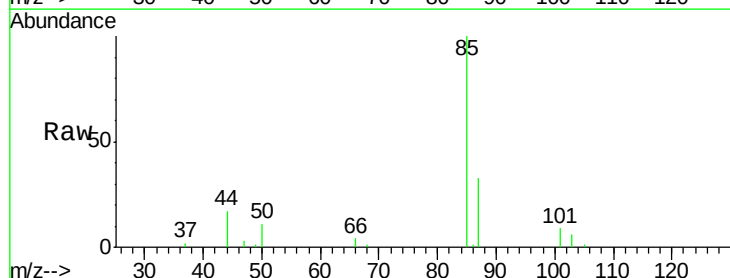
Acq: 16 Jan 2019 10:13

Tgt Ion: 85 Resp: 20854

Ion Ratio Lower Upper

85 100

87 33.0 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

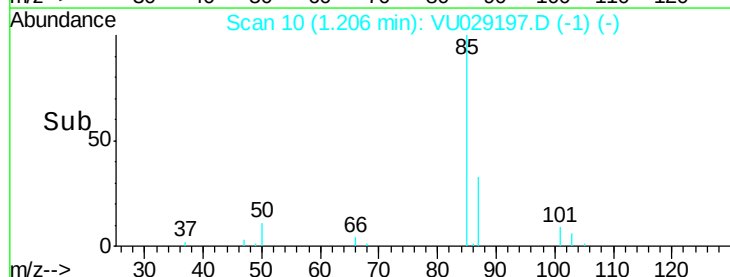
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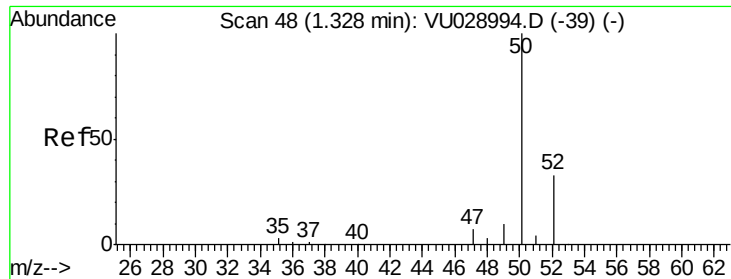
5000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 17.461 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion: 50 Resp: 31329

Ion Ratio Lower Upper

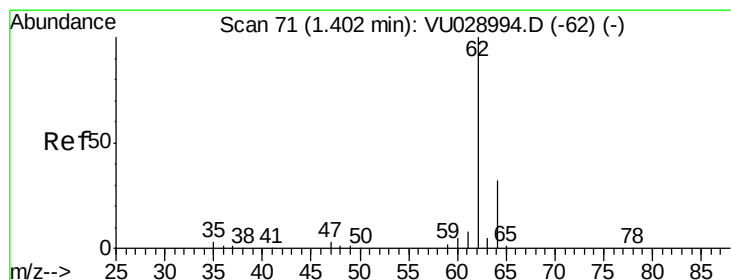
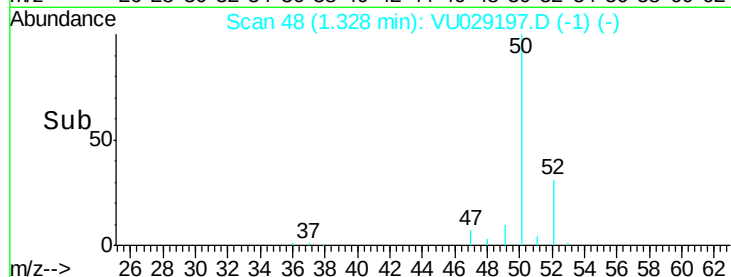
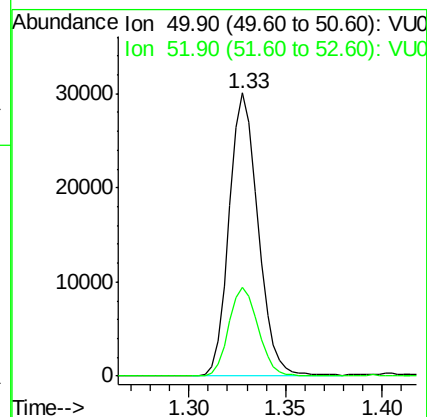
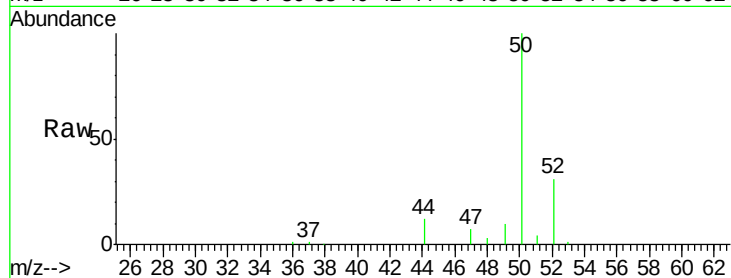
50 100

52 31.4 26.1 39.1

Manual Integrations
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#4

Vinyl Chloride

Concen: 19.177 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029197.D

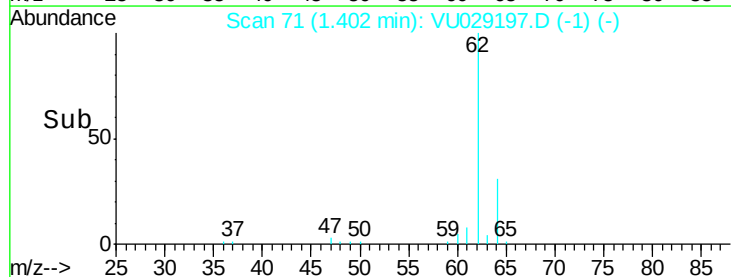
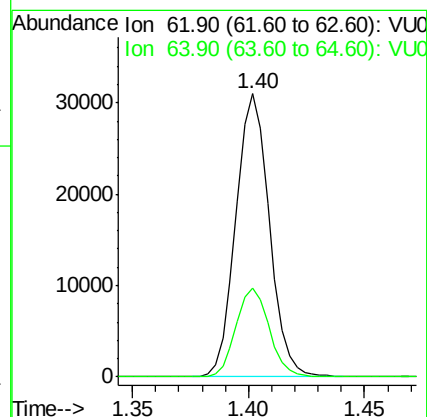
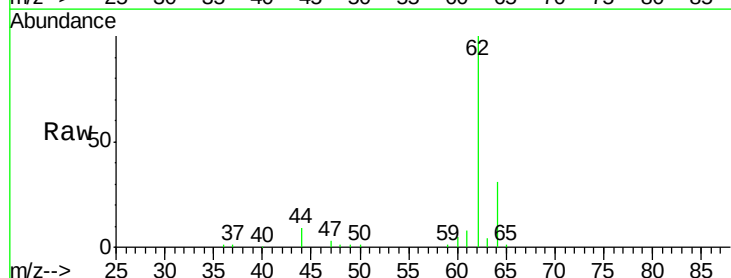
Acq: 16 Jan 2019 10:13

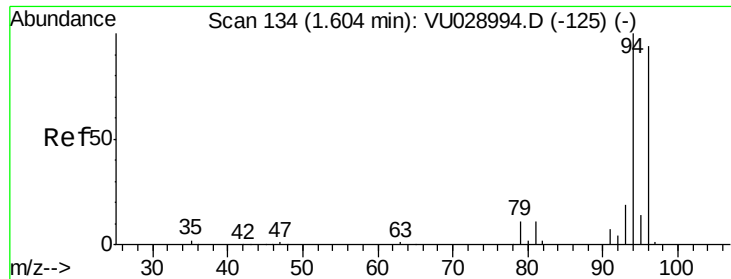
Tgt Ion: 62 Resp: 30963

Ion Ratio Lower Upper

62 100

64 31.3 25.9 38.9





#5

Bromomethane

Concen: 18.988 ug/l

RT: 1.62 min Scan# 138

Delta R.T. 0.01 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion: 94 Resp: 17326

Ion Ratio Lower Upper

94 100

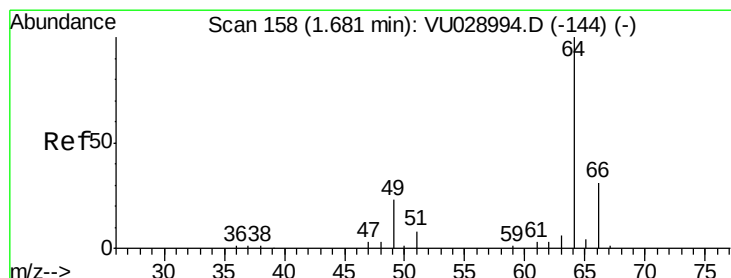
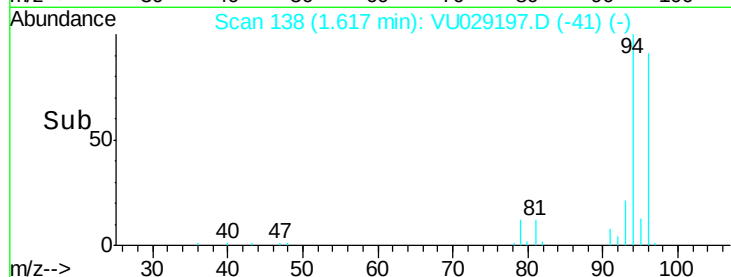
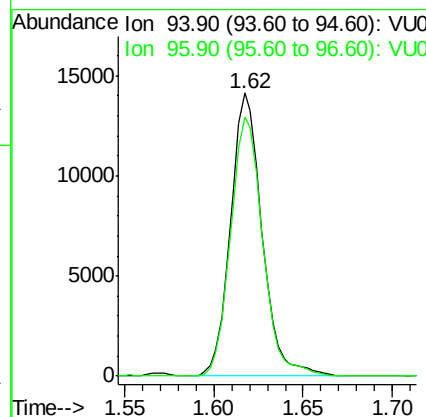
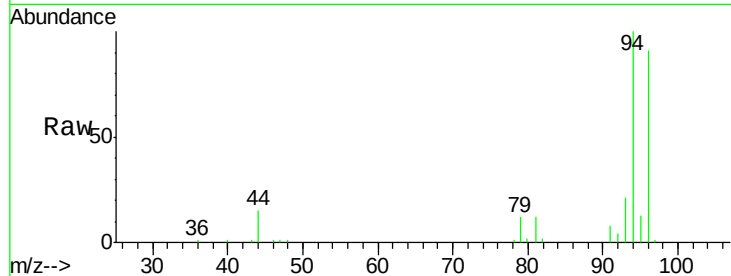
96 91.5 75.5 113.3

Manual Integrations

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#6

Chloroethane

Concen: 19.592 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU029197.D

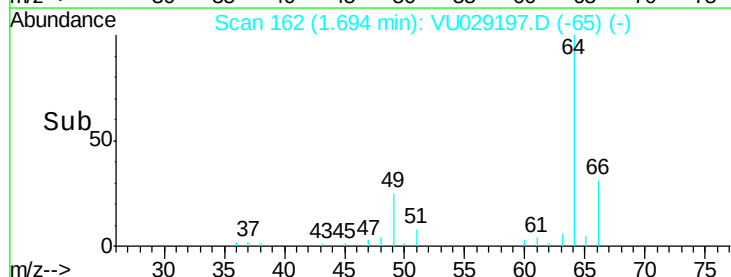
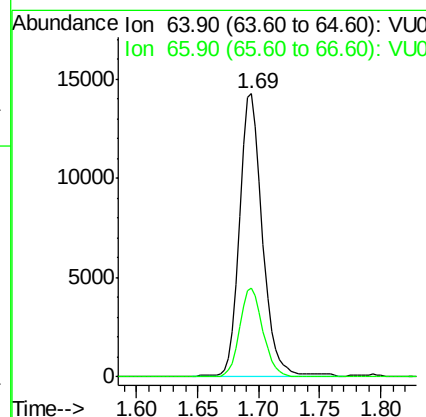
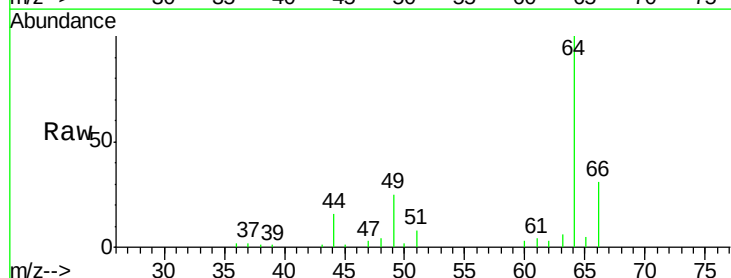
Acq: 16 Jan 2019 10:13

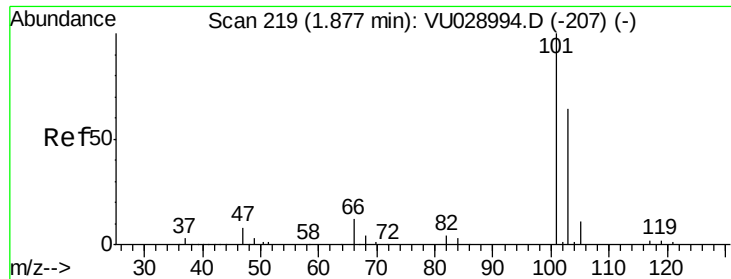
Tgt Ion: 64 Resp: 18842

Ion Ratio Lower Upper

64 100

66 31.4 25.2 37.8





#7

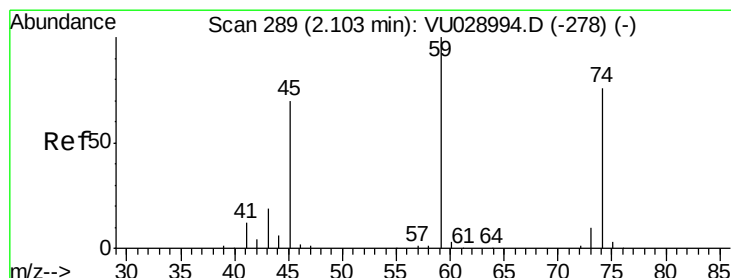
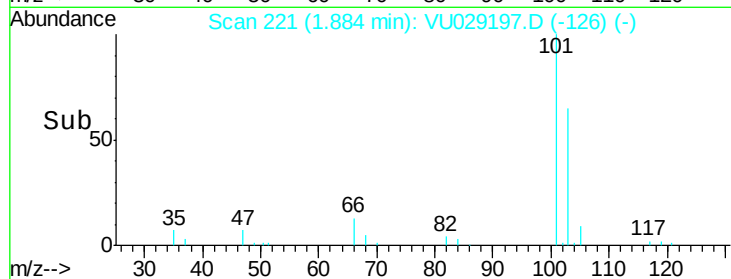
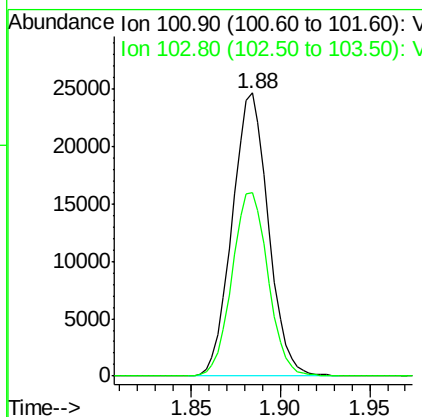
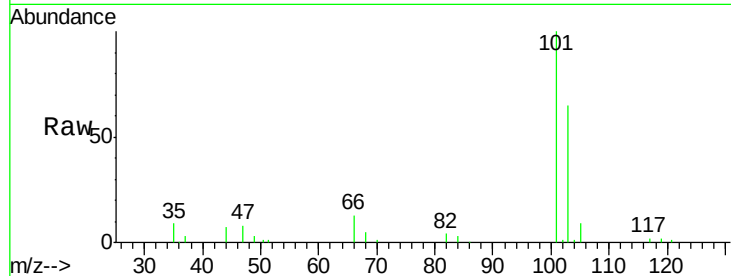
Trichlorofluoromethane
 Concen: 19.801 ug/l
 RT: 1.88 min Scan# 221
 Delta R.T. 0.01 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
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 ClientSampleId :
 VU0116WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.5	77.3

Manual Integrations
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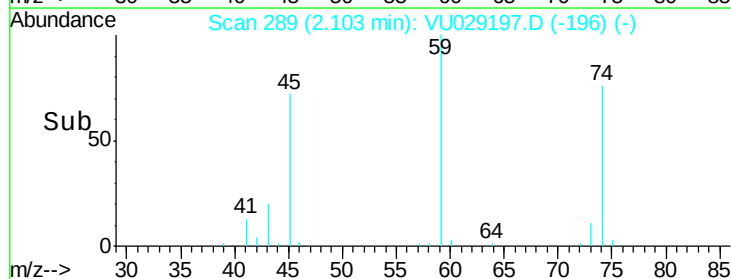
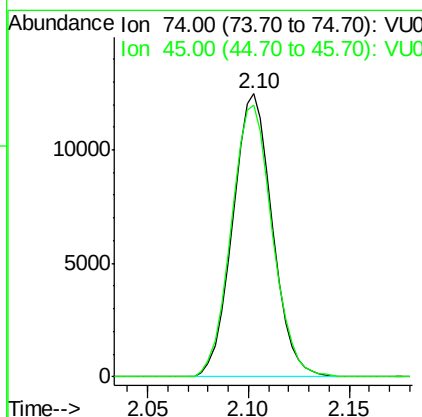
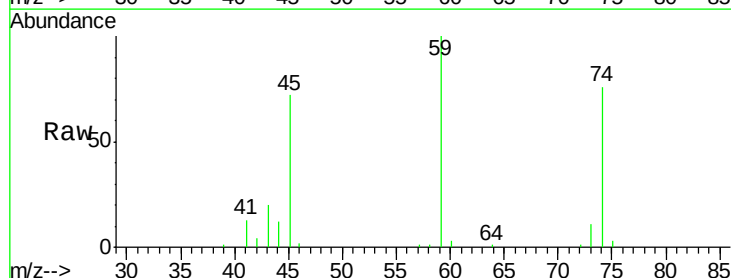
MMDadoda
 1/17/2019 9:43:31 AM

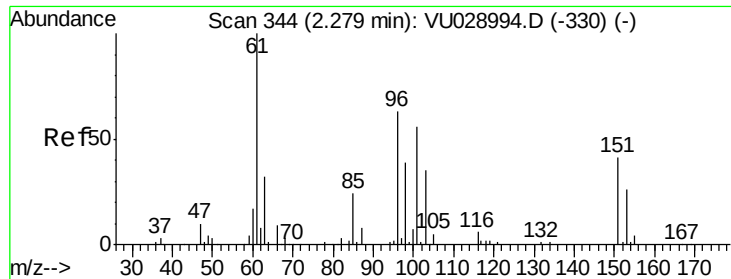


#8

Diethyl Ether
 Concen: 20.287 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.8	46.9	140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.095 ug/l

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

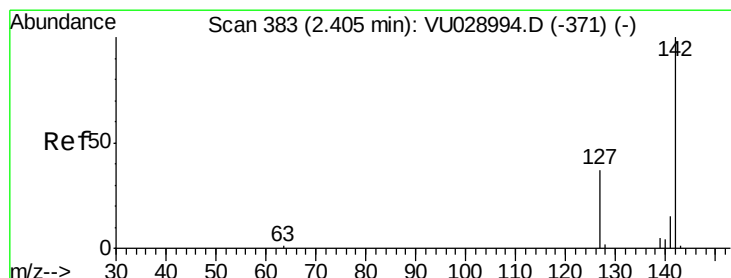
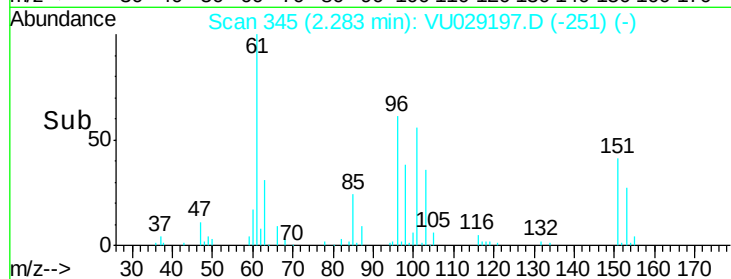
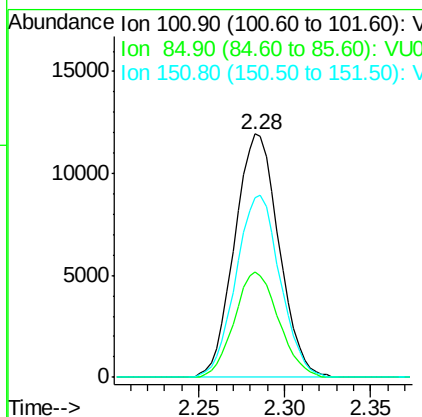
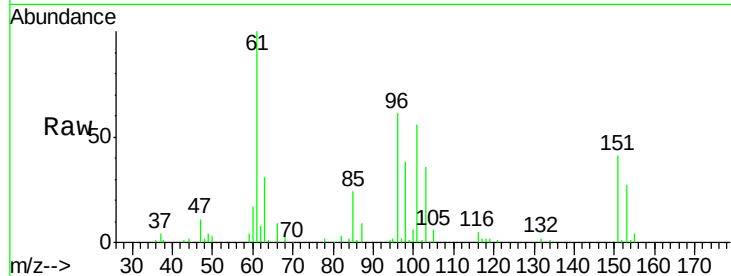
ClientSampleId :

VU0116WBS01

Tot Ion:	101	Resp:	21301
Ion Ratio	Lower	Upper	
101	100		
85	43.0	35.1	52.7
151	74.8	60.2	90.2

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#10

Methyl Iodide

Concen: 17.982 ug/l

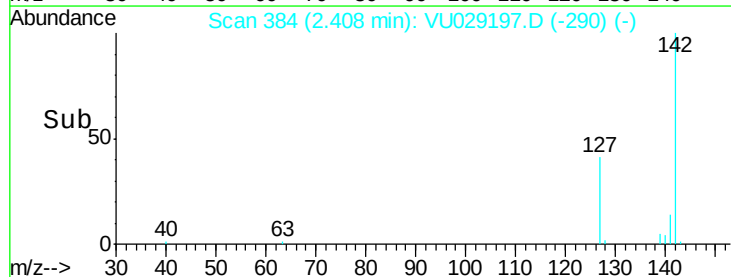
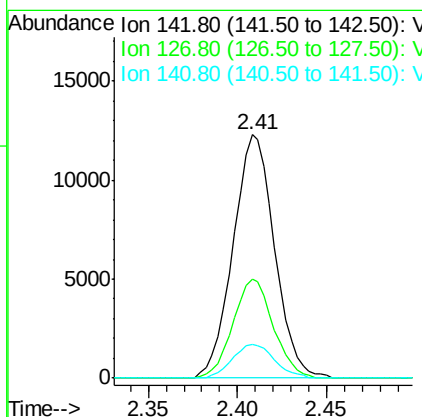
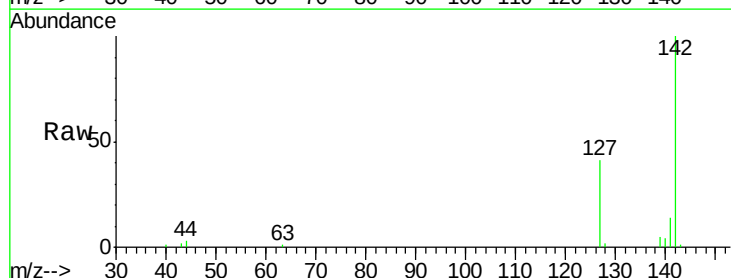
RT: 2.41 min Scan# 384

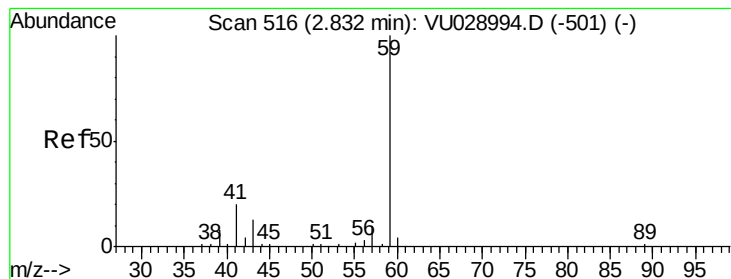
Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion:	142	Resp:	19903
Ion Ratio	Lower	Upper	
142	100		
127	39.5	29.8	44.6
141	14.1	11.5	17.3





#11

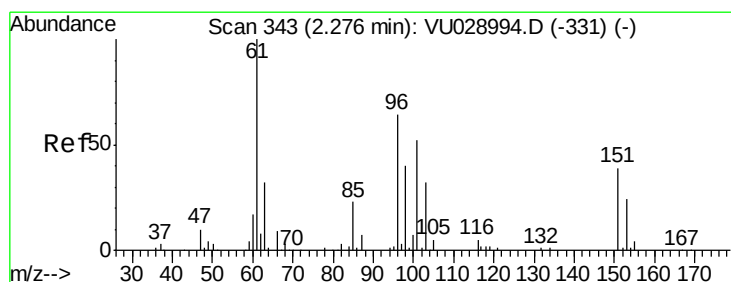
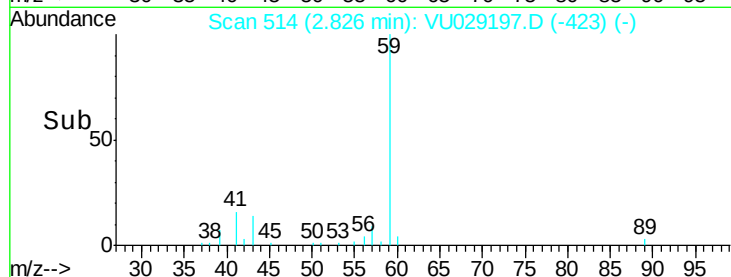
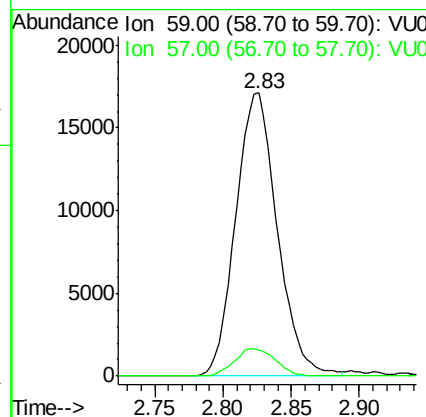
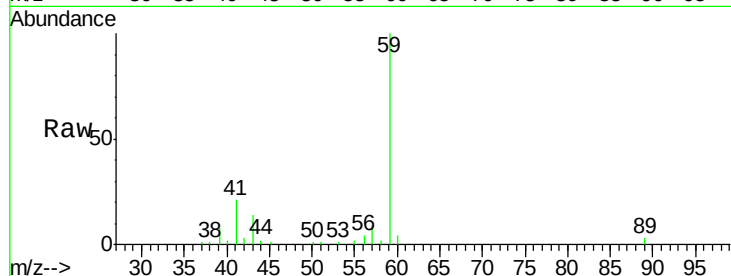
Tert butyl alcohol
Concen: 104.412 ug/l
RT: 2.83 min Scan# 514
Delta R.T. -0.01 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.9	11.9

Manual Integrations
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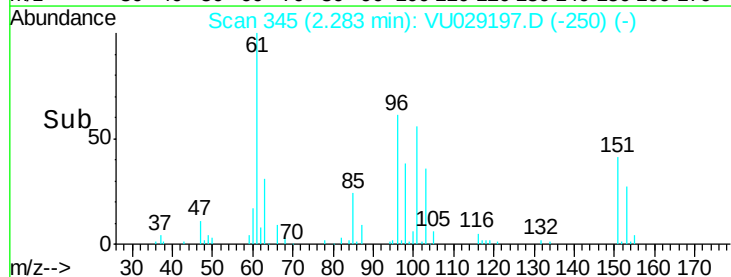
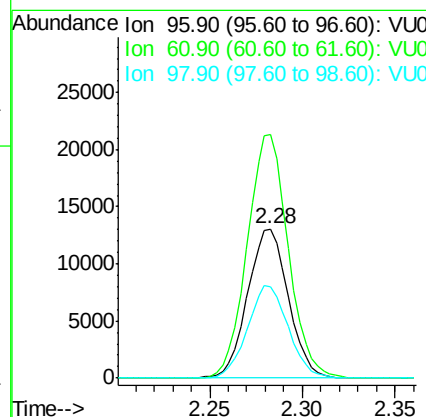
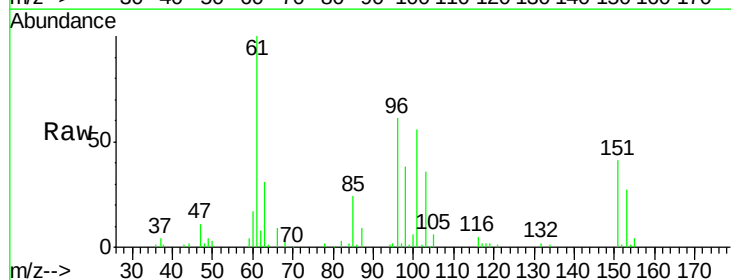
MMDadoda
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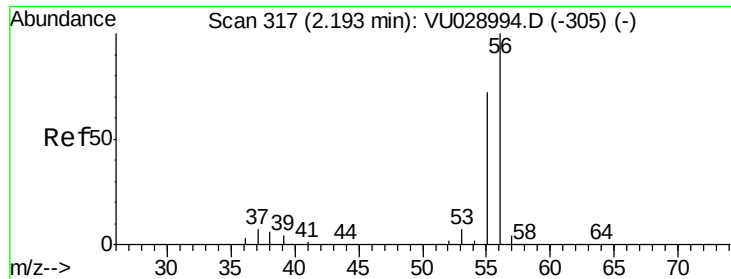


#12

1,1-Dichloroethene
Concen: 17.459 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.01 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.9	125.4	188.0
98	61.4	49.7	74.5





#13

Acrolein

Concen: 75.199 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion: 56 Resp: 19602

Ion Ratio Lower Upper

56 100

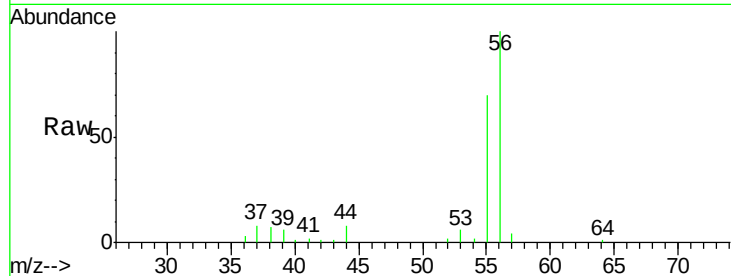
55 72.2 56.5 84.7

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

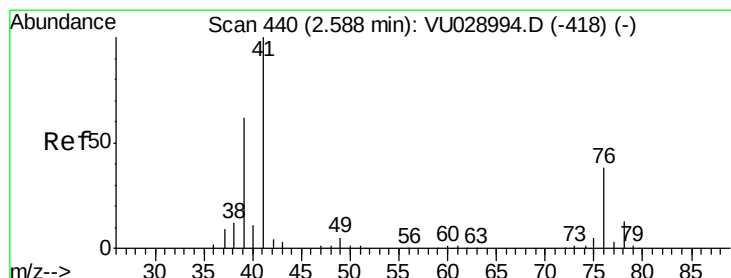
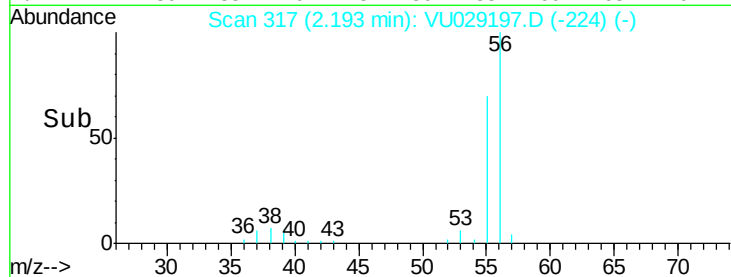
10000

5000

0

2.15 2.20 2.25

Time-->



#14

Allyl chloride

Concen: 18.959 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

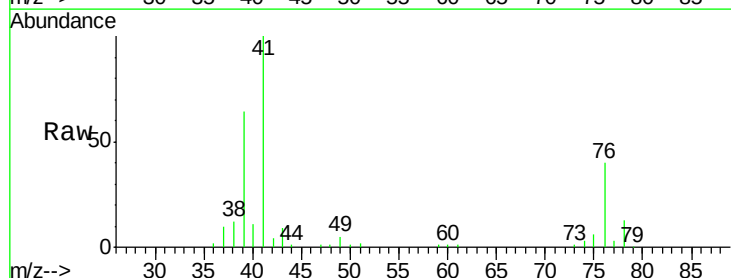
Tgt Ion: 41 Resp: 39859

Ion Ratio Lower Upper

41 100

39 63.0 45.0 67.6

76 37.7 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

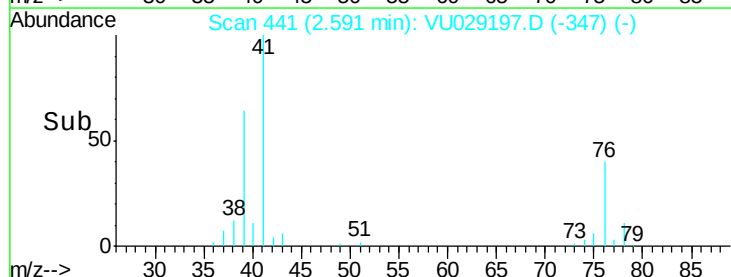
10000

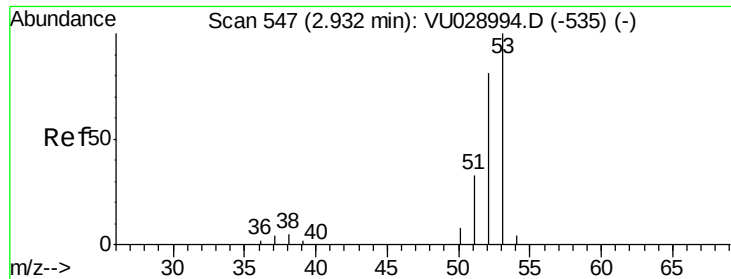
5000

0

2.55 2.60 2.65

Time-->





#15

Acrylonitrile

Concen: 106.462 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

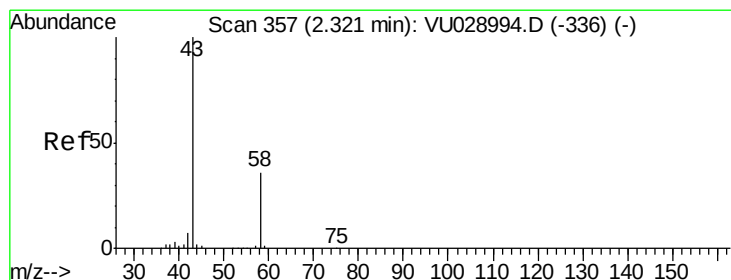
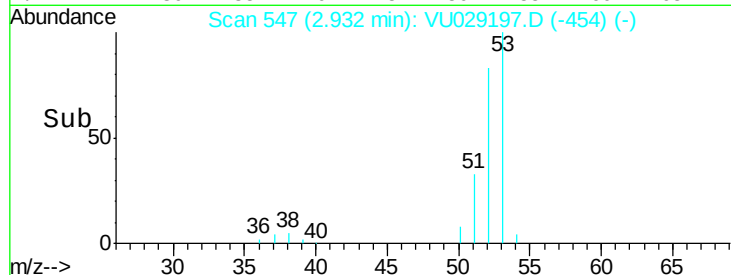
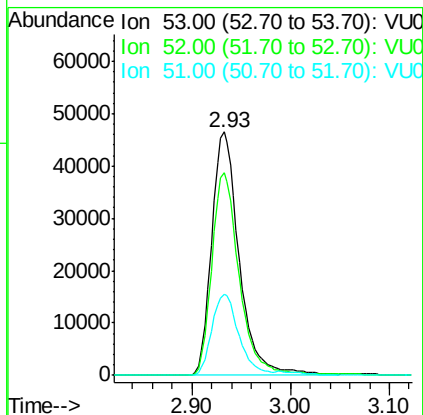
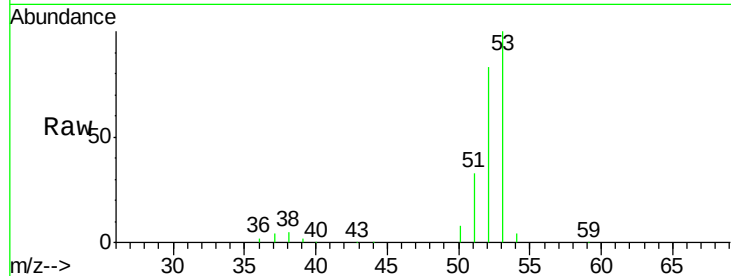
ClientSampleId :

VU0116WBS01

Tot Ion:	53	Resp:	90670
Ion	Ratio	Lower	Upper
53	100		
52	83.1	64.8	97.2
51	32.6	27.3	40.9

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#16

Acetone

Concen: 105.111 ug/l

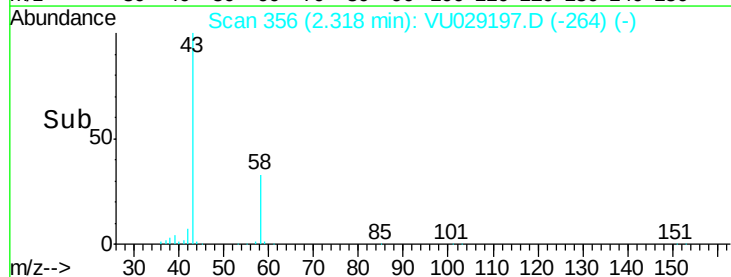
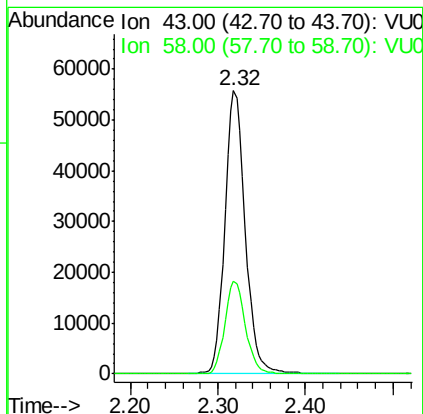
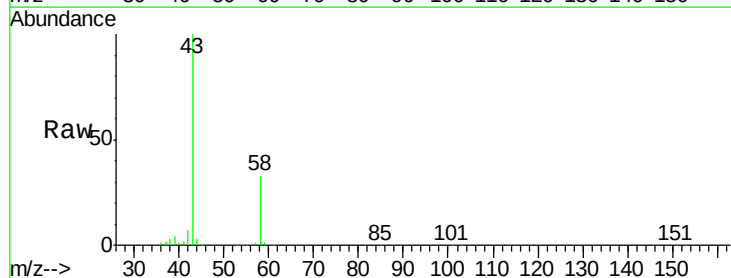
RT: 2.32 min Scan# 356

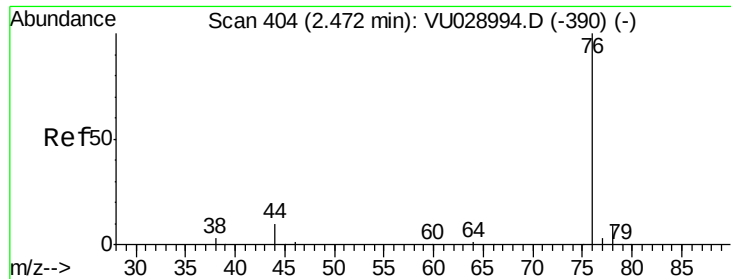
Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion:	43	Resp:	90432
Ion	Ratio	Lower	Upper
43	100		
58	32.9	28.6	42.8





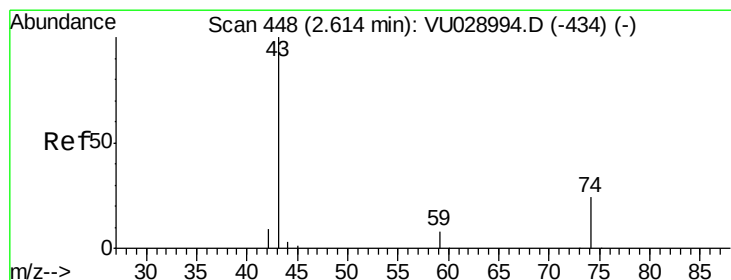
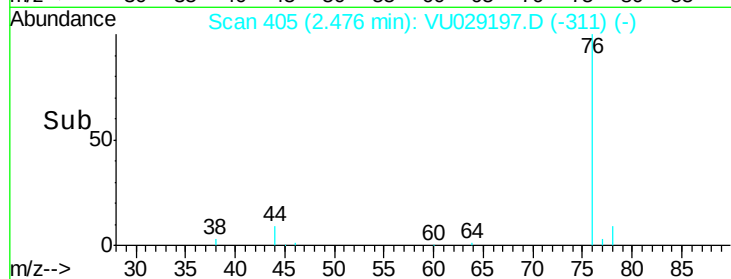
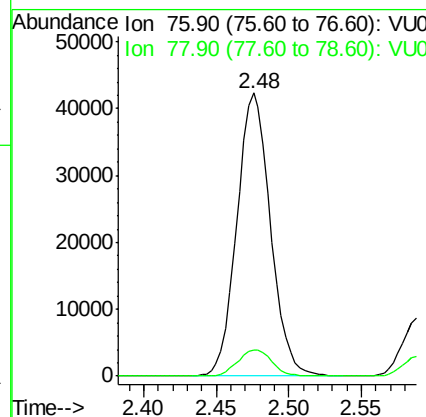
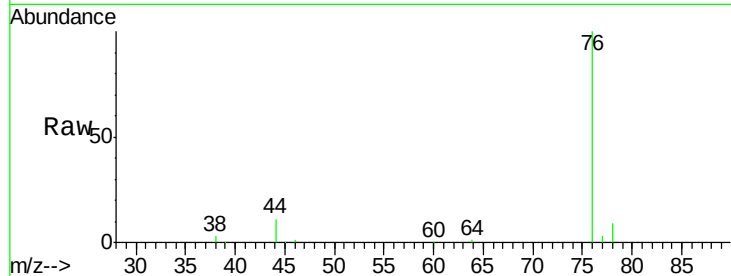
#17
Carbon Disulfide
Concen: 17.553 ug/l
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion: 76 Resp: 67973
Ion Ratio Lower Upper
76 100
78 9.3 7.2 10.8

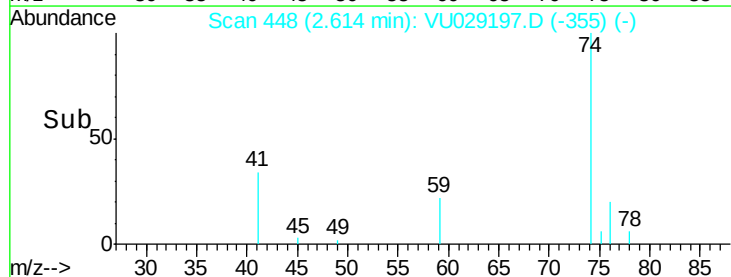
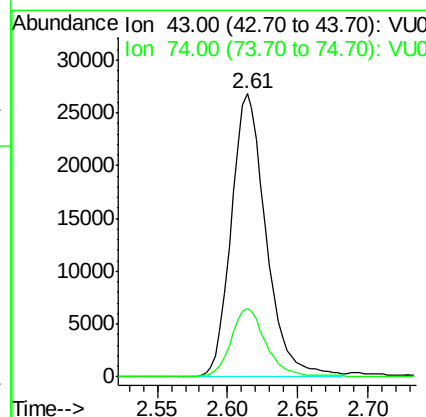
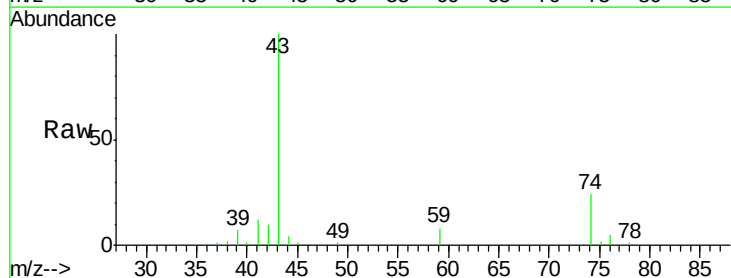
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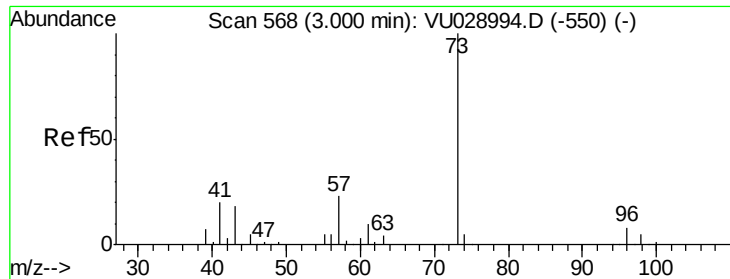
MMDadoda
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#18
Methyl Acetate
Concen: 23.161 ug/l
RT: 2.61 min Scan# 448
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 43 Resp: 46333
Ion Ratio Lower Upper
43 100
74 24.3 19.5 29.3





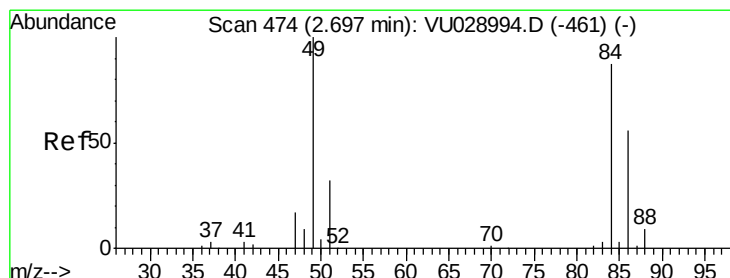
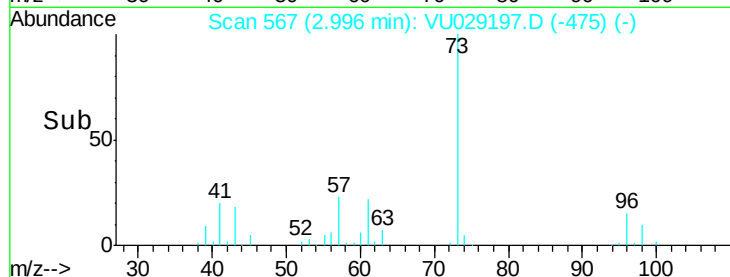
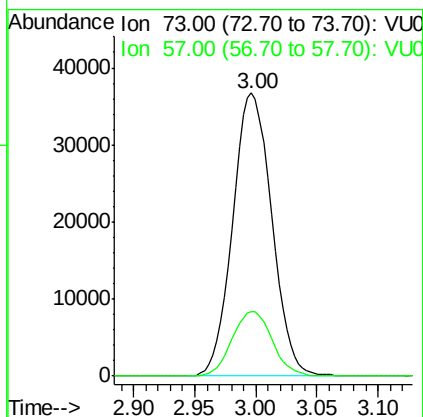
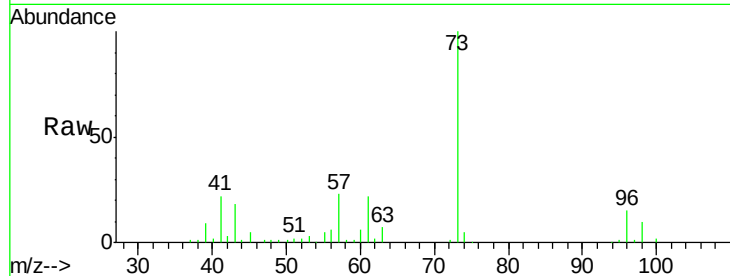
#19
Methyl tert-butyl Ether
Concen: 20.258 ug/l
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion: 73 Resp: 81606
Ion Ratio Lower Upper
73 100
57 22.9 18.6 28.0

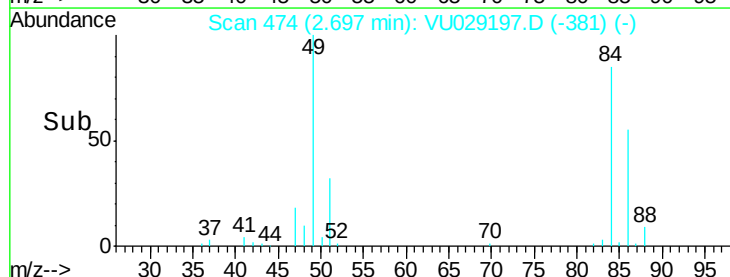
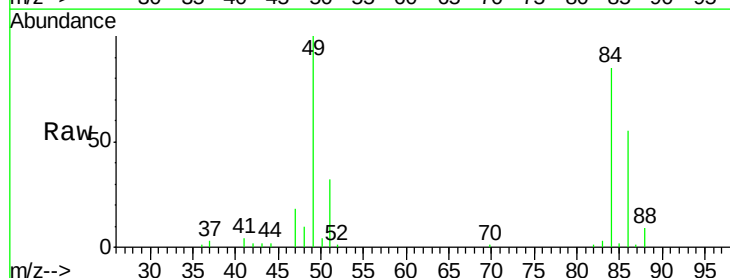
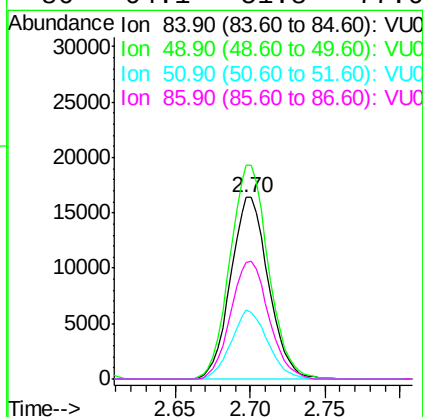
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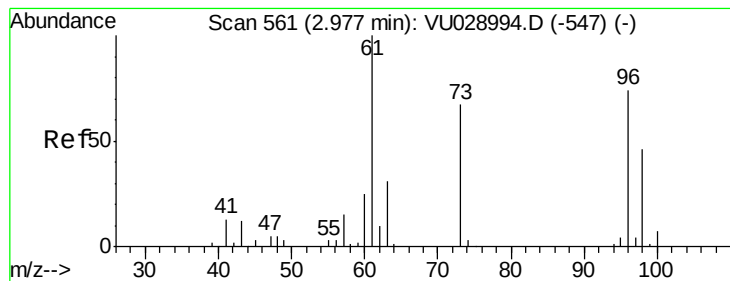
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#20
Methylene Chloride
Concen: 19.742 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 84 Resp: 28838
Ion Ratio Lower Upper
84 100
49 117.5 91.9 137.9
51 37.8 29.2 43.8
86 64.1 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 19.388 ug/l

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion: 96 Resp: 25809

Ion Ratio Lower Upper

96 100

61 135.9 107.7 161.5

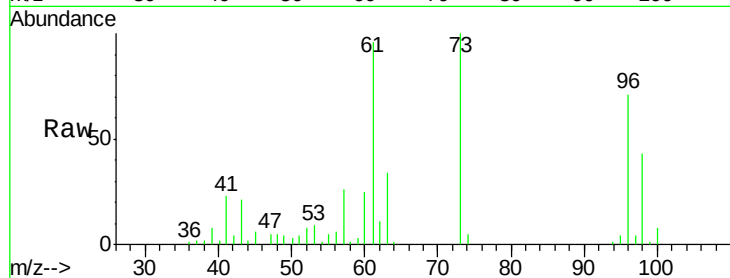
98 60.9 49.2 73.8

Manual Integrations

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Abundance Ion 95.90 (95.60 to 96.60): VU029197.D (-547) (-)

Ion 60.90 (60.60 to 61.60): VU029197.D (-547) (-)

Ion 97.90 (97.60 to 98.60): VU029197.D (-547) (-)

Time-->

2.90 2.95 3.00 3.05

2.98

15000

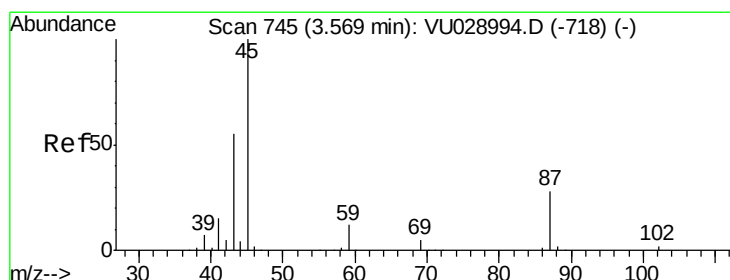
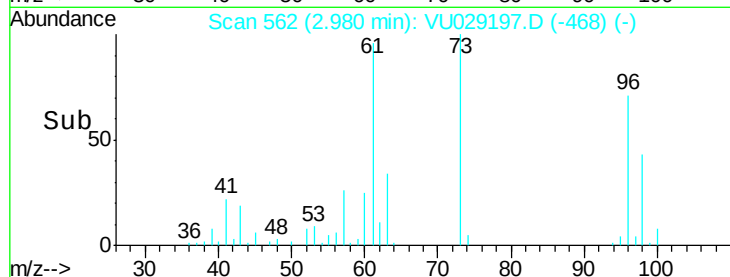
10000

5000

0

2.90 2.95 3.00 3.05

Time-->



#22

Diisopropyl ether

Concen: 21.116 ug/l

RT: 3.57 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion: 45 Resp: 87738

Ion Ratio Lower Upper

45 100

43 61.8 44.7 67.1

87 27.7 22.2 33.2

59 11.8 9.8 14.8

Abundance Ion 45.00 (44.70 to 45.70): VU029197.D (-652) (-)

Ion 43.00 (42.70 to 43.70): VU029197.D (-652) (-)

Ion 87.00 (86.70 to 87.70): VU029197.D (-652) (-)

Ion 59.00 (58.70 to 59.70): VU029197.D (-652) (-)

Time-->

3.50 3.55 3.60 3.65 3.70

3.57

150000

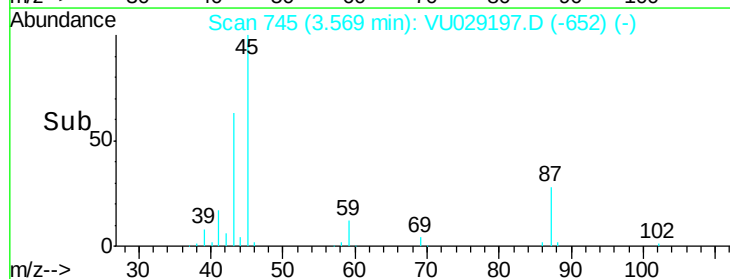
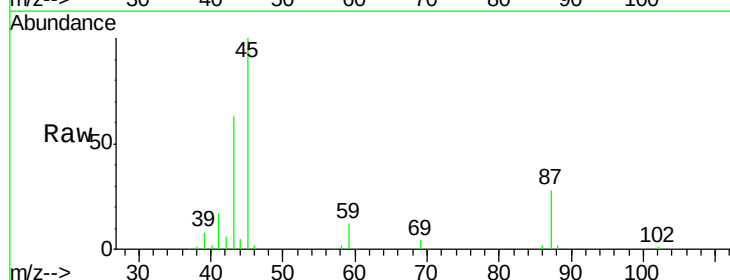
100000

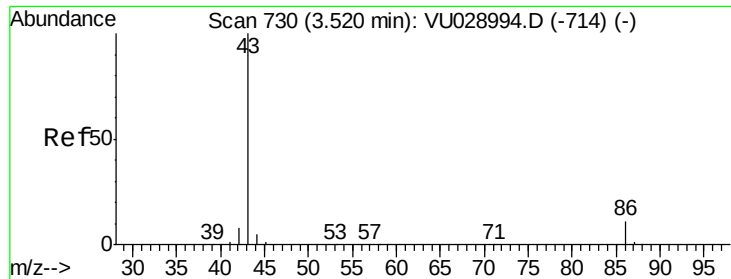
50000

0

3.50 3.55 3.60 3.65 3.70

Time-->





#23

Vinyl Acetate

Concen: 103.681 ug/l

RT: 3.52 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tot Ion: 43 Resp: 352180

Ion Ratio Lower Upper

43 100

86 10.2 8.6 13.0

Instrument :

MSVOA_U

ClientSampleId :

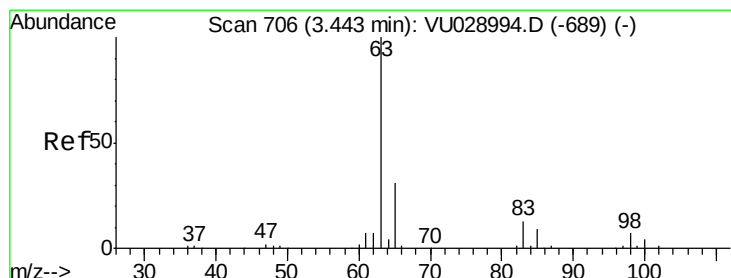
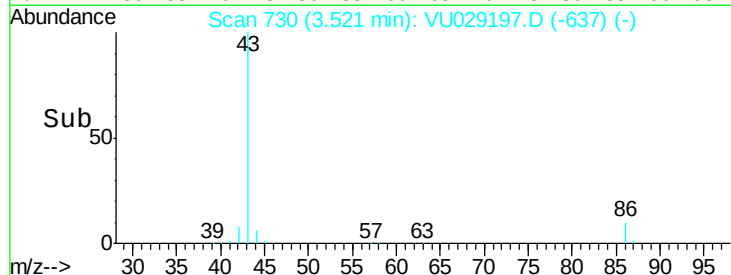
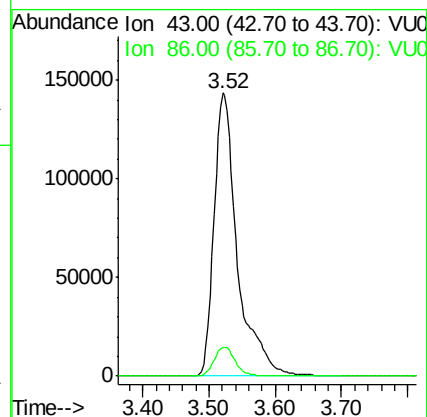
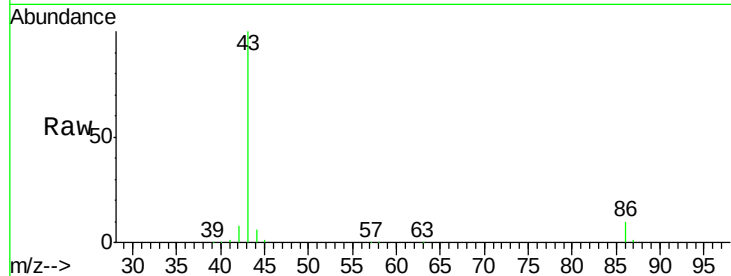
VU0116WBS01

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#24

1,1-Dichloroethane

Concen: 21.326 ug/l

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

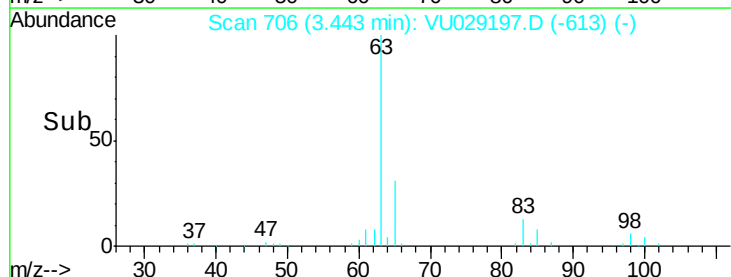
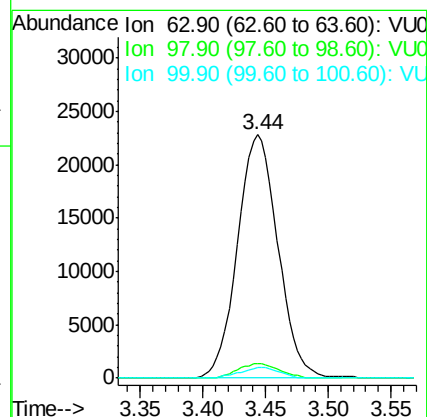
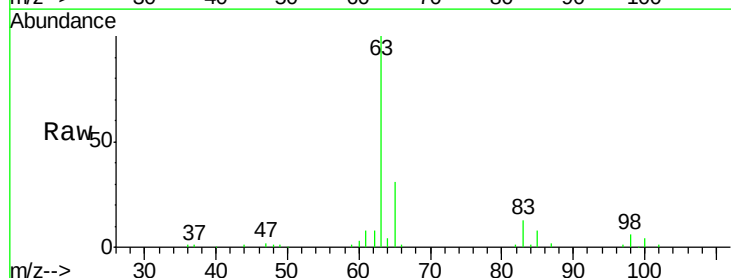
Tgt Ion: 63 Resp: 51152

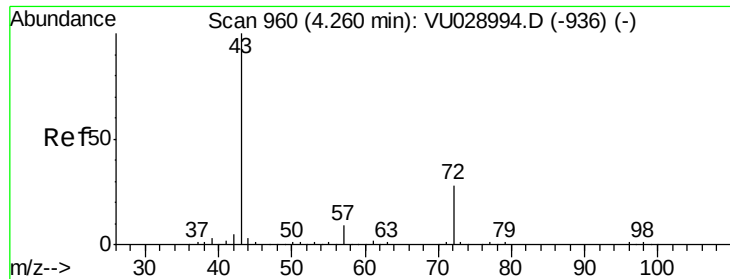
Ion Ratio Lower Upper

63 100

98 6.2 3.4 10.1

100 4.3 2.0 5.8





#25

2-Butanone

Concen: 112.545 ug/l

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion: 43 Resp: 130780

Ion Ratio Lower Upper

43 100

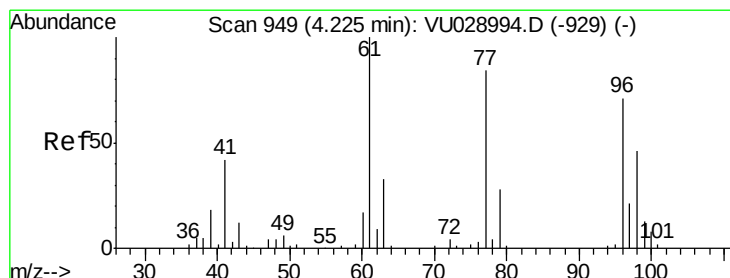
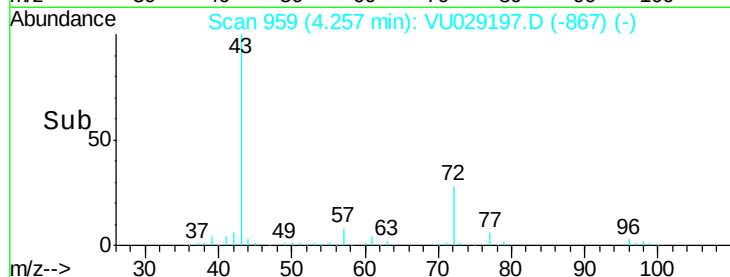
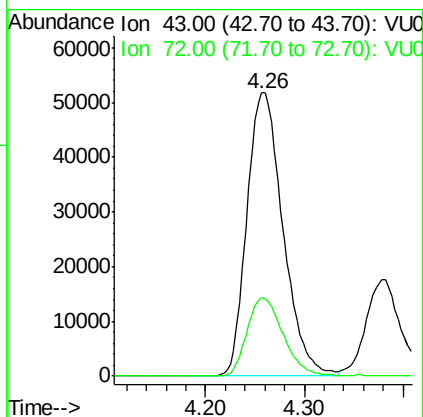
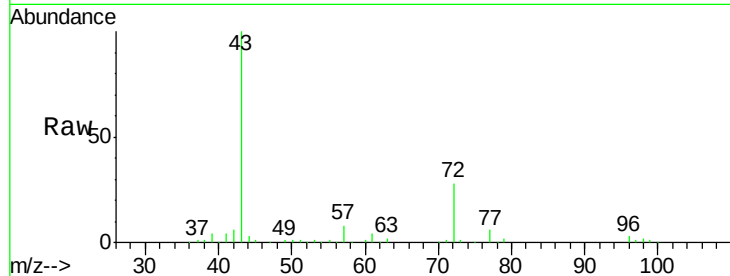
72 27.5 22.6 33.8

Manual Integrations

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MMDadoda

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#26

2,2-Dichloropropane

Concen: 21.130 ug/l

RT: 4.22 min Scan# 949

Delta R.T. 0.00 min

Lab File: VU029197.D

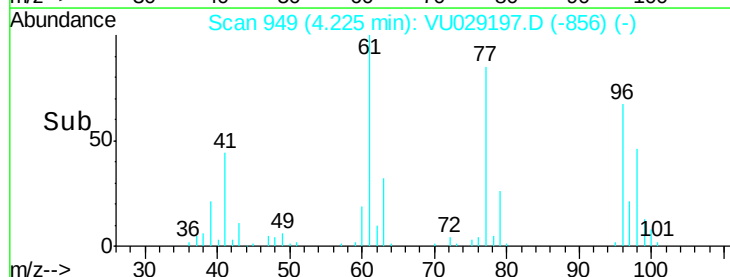
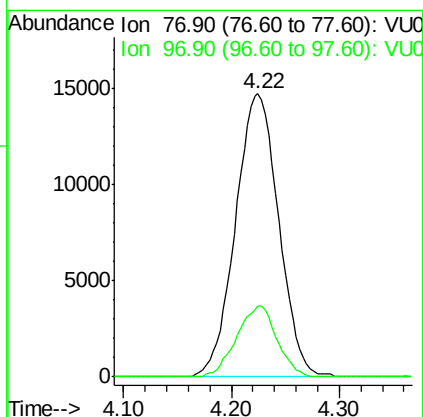
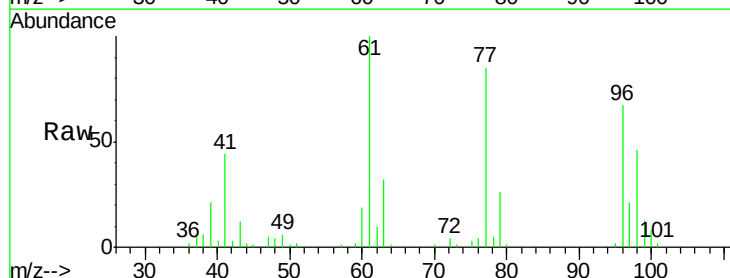
Acq: 16 Jan 2019 10:13

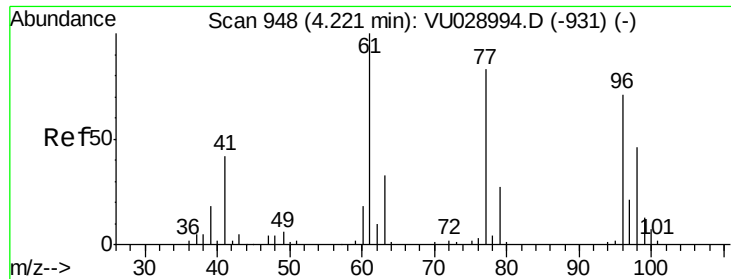
Tgt Ion: 77 Resp: 40953

Ion Ratio Lower Upper

77 100

97 23.4 12.0 36.1





#27

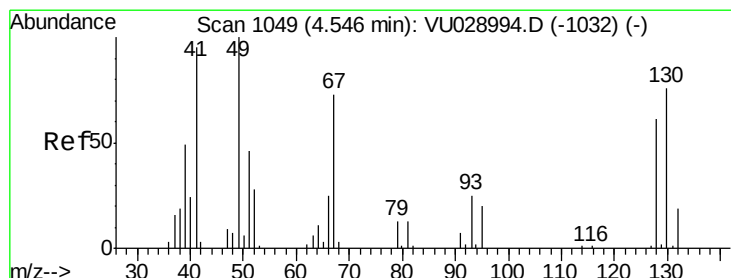
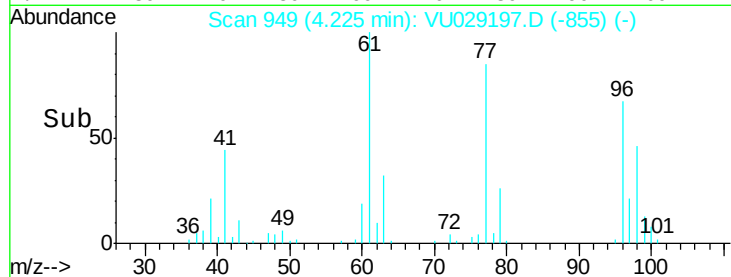
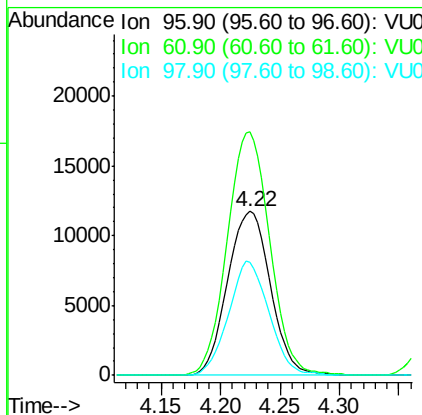
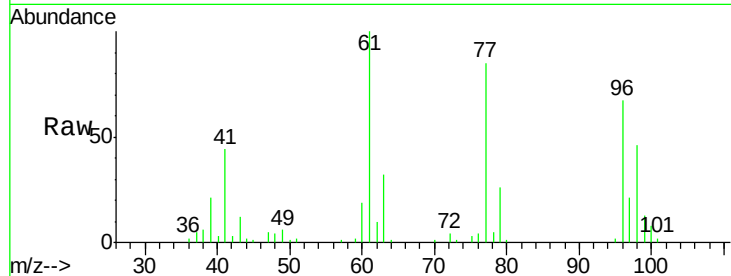
cis-1,2-Dichloroethene
Concen: 20.167 ug/l
RT: 4.22 min Scan# 949
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.3	0.0	285.6
98	65.6	0.0	130.2

Manual Integrations
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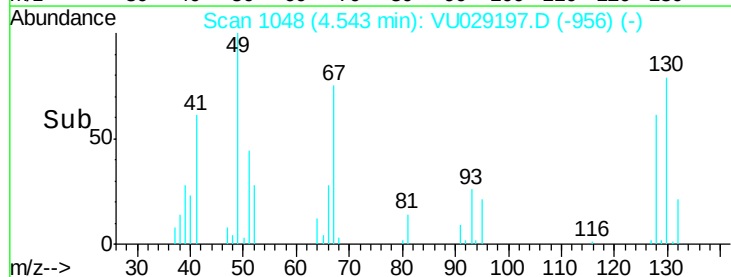
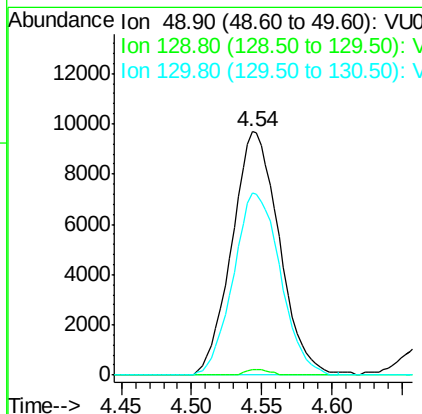
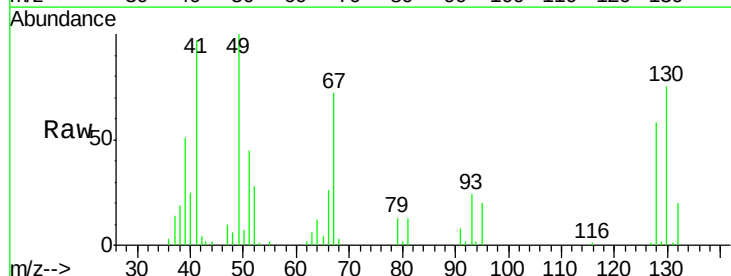
MMDadoda
1/17/2019 9:43:31 AM

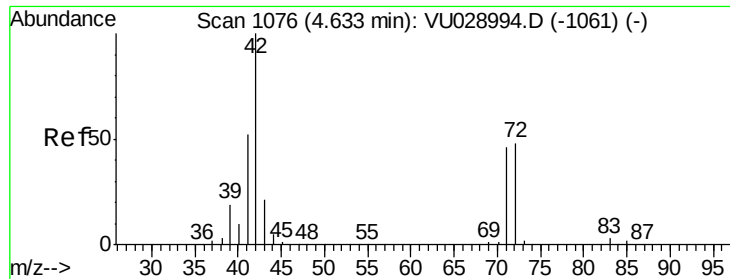


#28

Bromochloromethane
Concen: 22.120 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	3.4
130	74.4	62.9	94.3





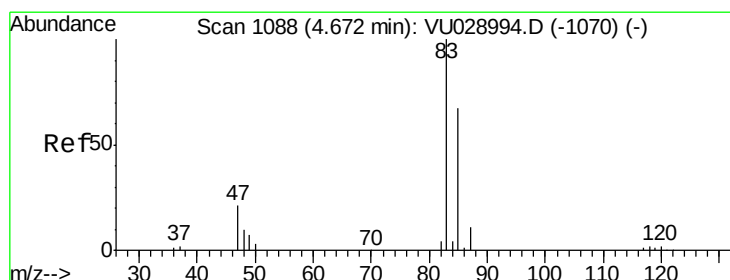
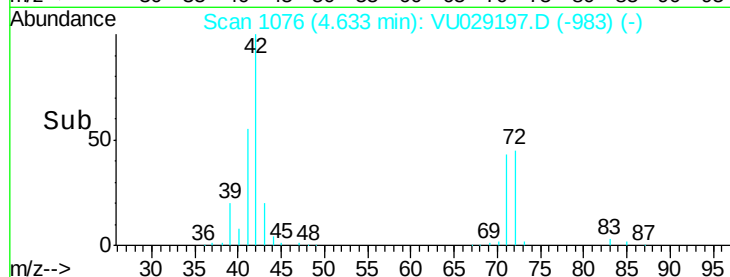
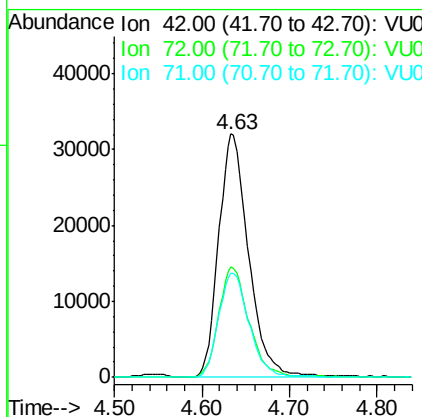
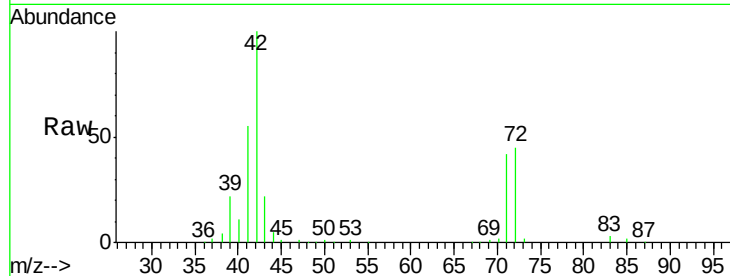
#29
Tetrahydrofuran
Concen: 108.457 ug/l
RT: 4.63 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	38.3	57.5
71	43.2	36.1	54.1

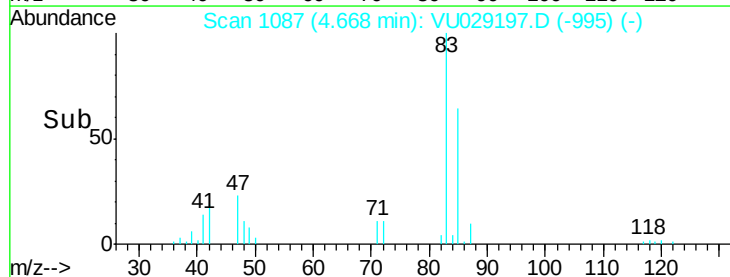
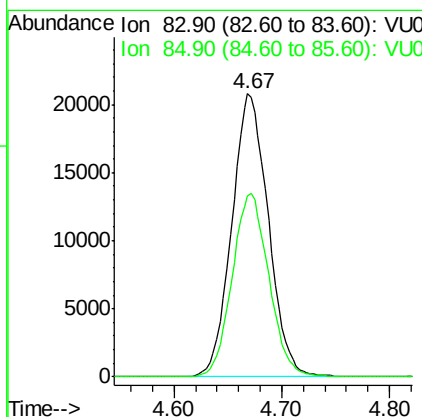
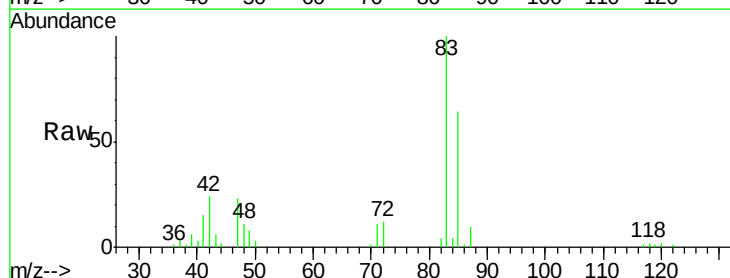
Manual Integrations
APPROVED

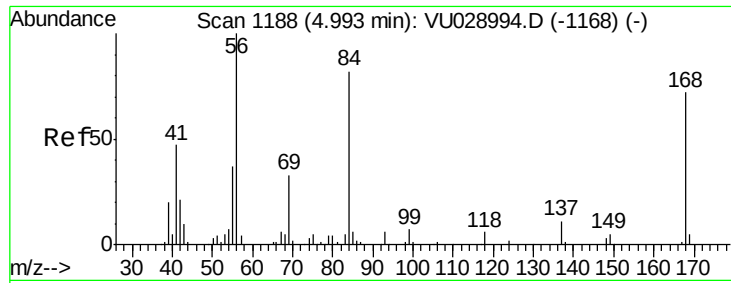
MMDadoda
1/17/2019 9:43:31 AM



#30
Chloroform
Concen: 21.428 ug/l
RT: 4.67 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	53.4	80.0





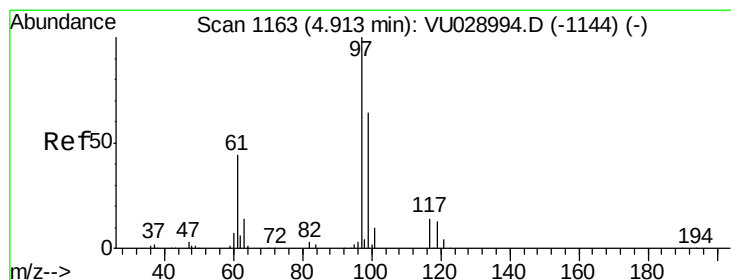
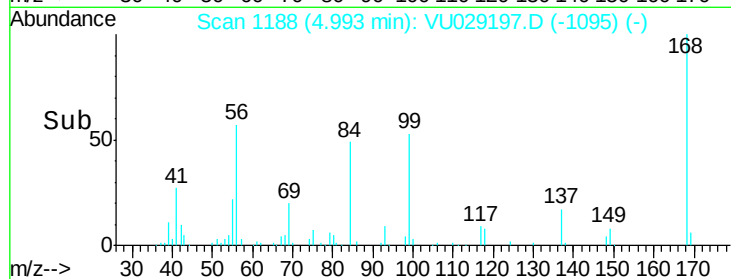
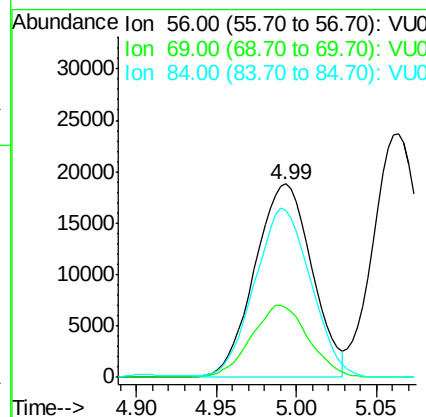
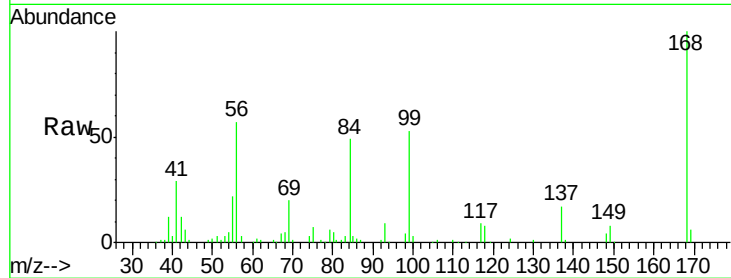
#31
Cyclohexane
Concen: 19.867 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.9	26.7	40.1
84	85.8	65.7	98.5

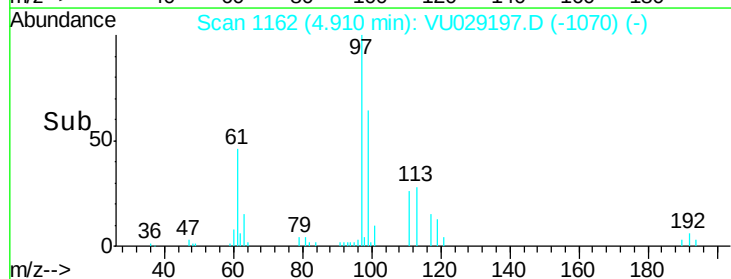
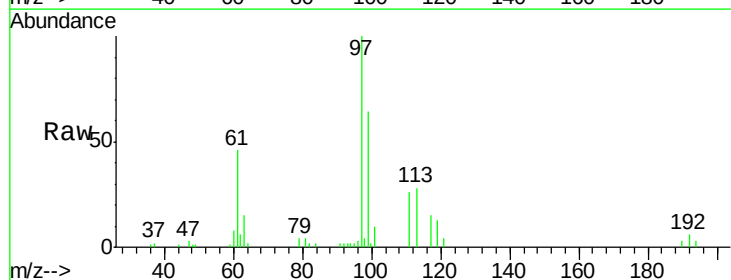
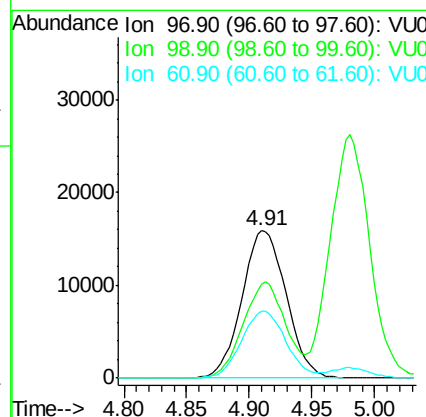
Manual Integrations
APPROVED

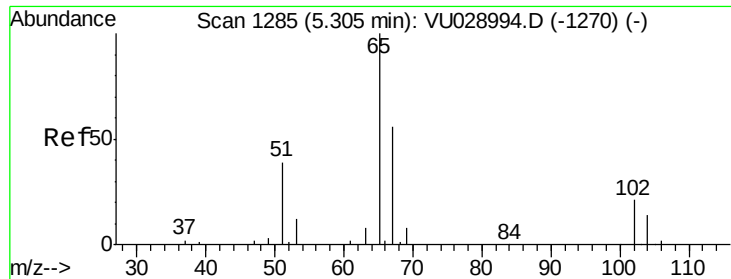
MMDadoda
1/17/2019 9:43:31 AM



#32
1,1,1-Trichloroethane
Concen: 20.635 ug/l
RT: 4.91 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.0	76.4
61	45.7	34.4	51.6





#33

1,2-Dichloroethane-d4

Concen: 51.333 ug/l

RT: 5.31 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion: 65 Resp: 70106

Ion Ratio Lower Upper

65 100

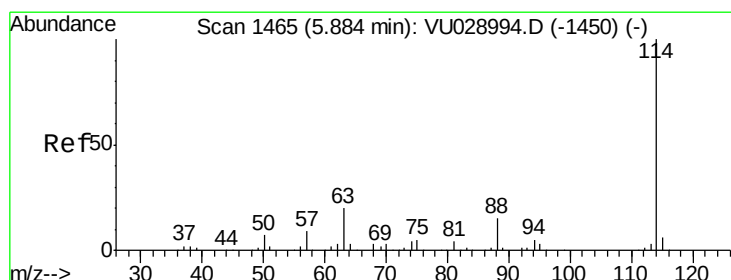
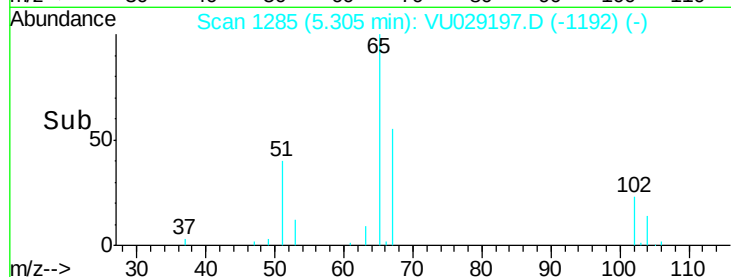
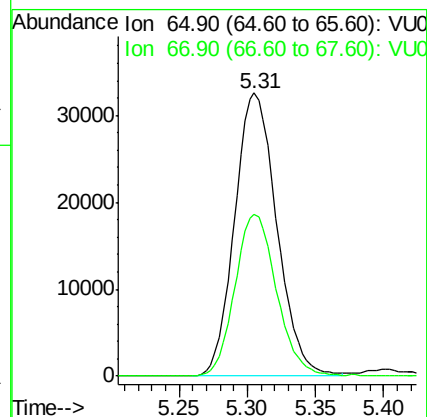
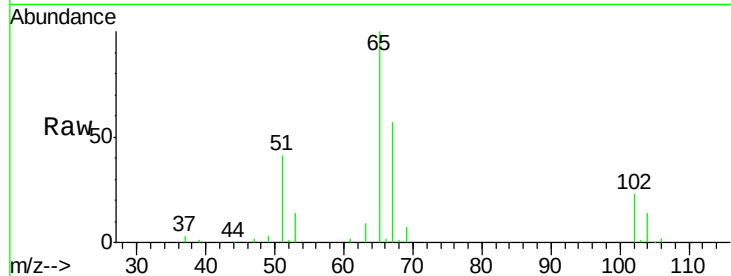
67 56.1 0.0 111.0

Manual Integrations

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1/17/2019 9:43:31 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

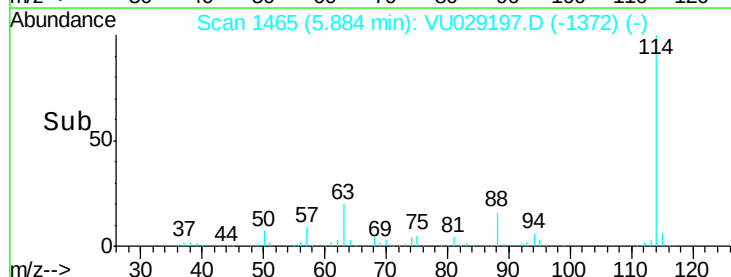
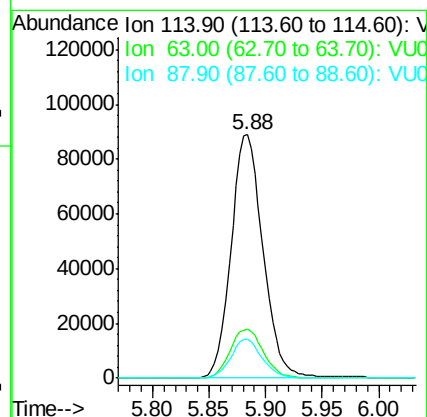
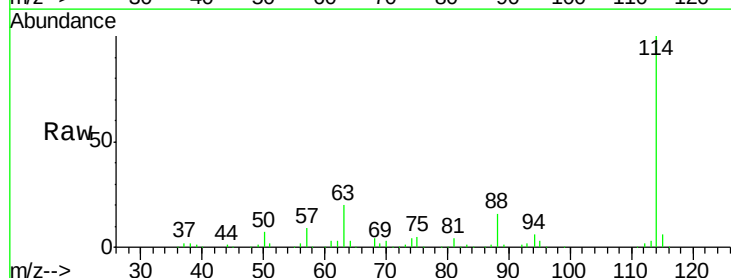
Tgt Ion: 114 Resp: 174726

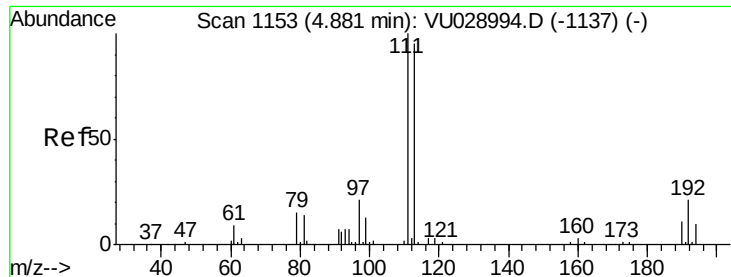
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

88 15.9 0.0 30.4





#35

Dibromofluoromethane

Concen: 53.186 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion:113 Resp: 60240

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.2

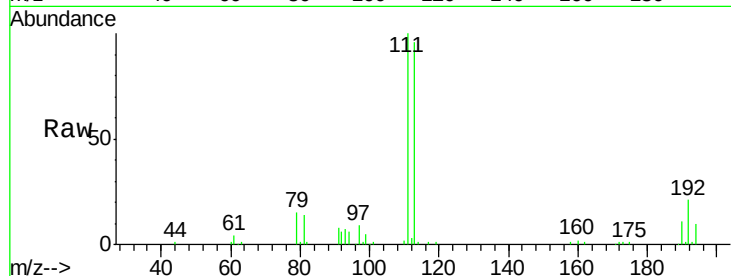
192 21.3 16.8 25.2

Manual Integrations

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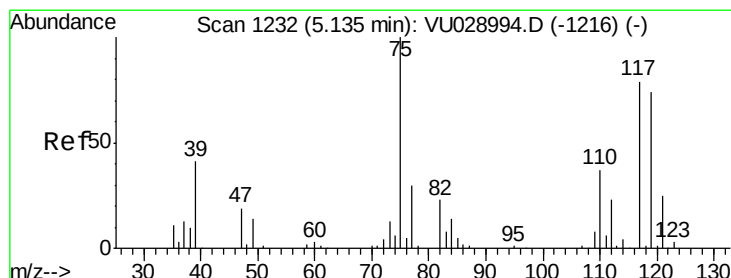
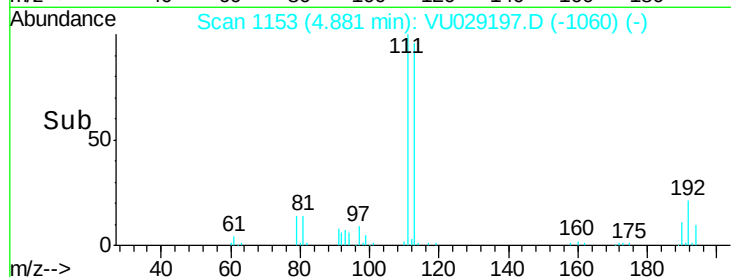
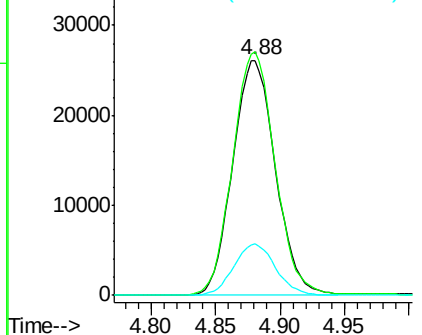
1/17/2019 9:43:31 AM



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.853 ug/l

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

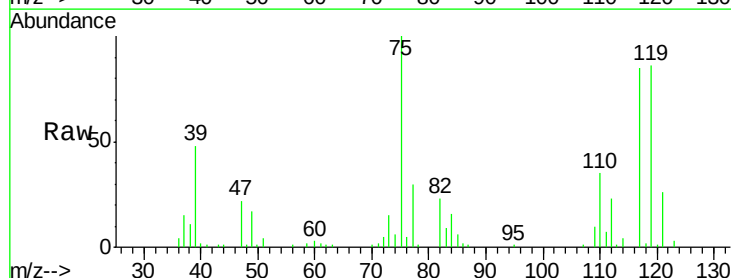
Tgt Ion: 75 Resp: 34672

Ion Ratio Lower Upper

75 100

110 36.8 18.4 55.4

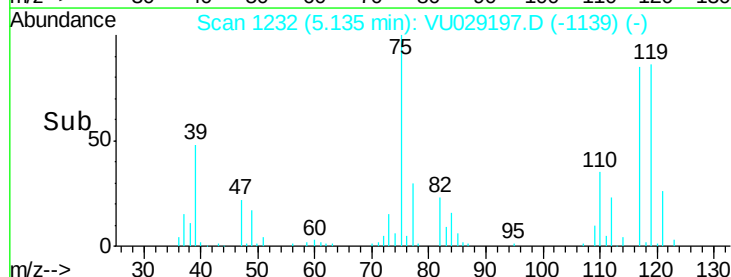
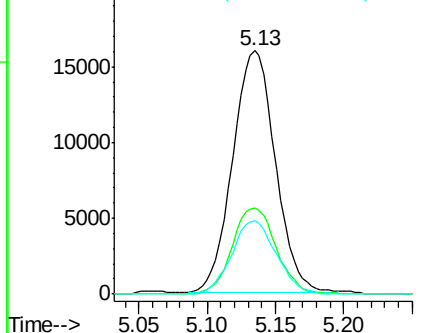
77 31.5 25.1 37.7

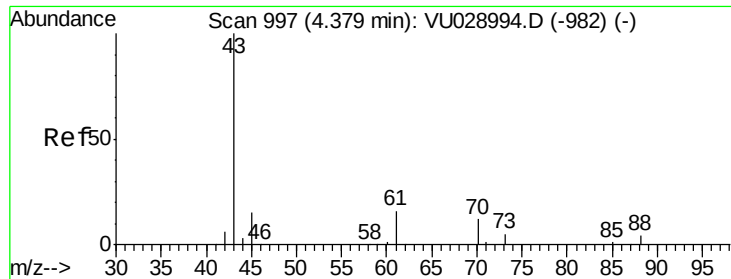


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





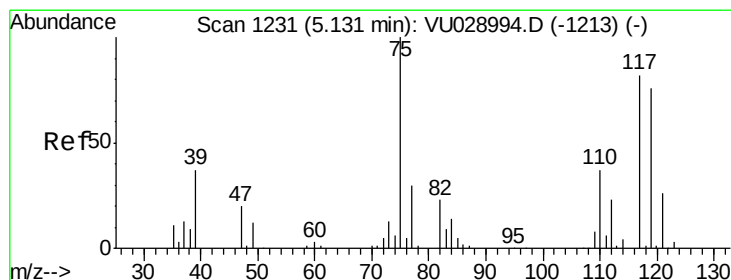
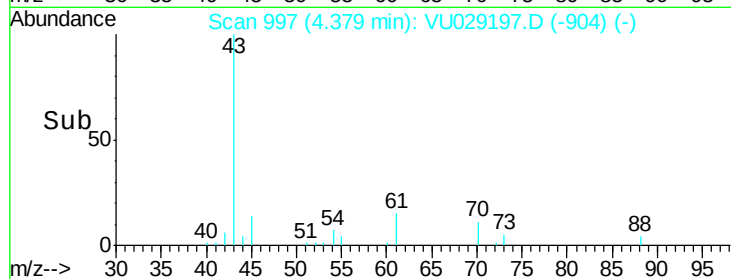
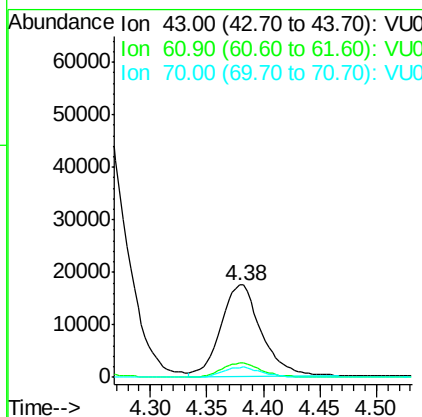
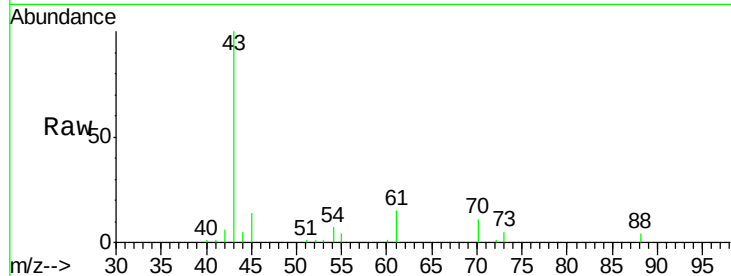
#37
Ethyl Acetate
Concen: 22.429 ug/l
RT: 4.38 min Scan# 997
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	12.6	18.8
70	10.6	9.3	13.9

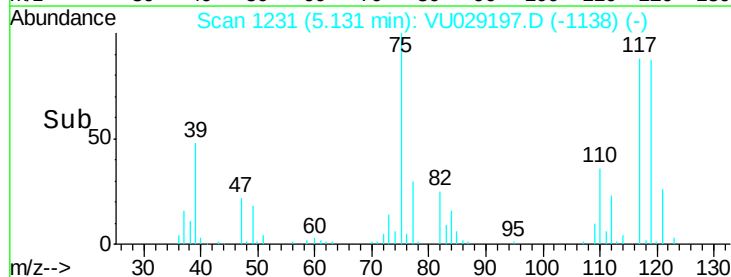
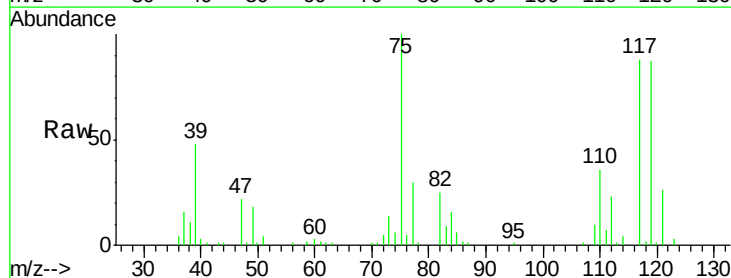
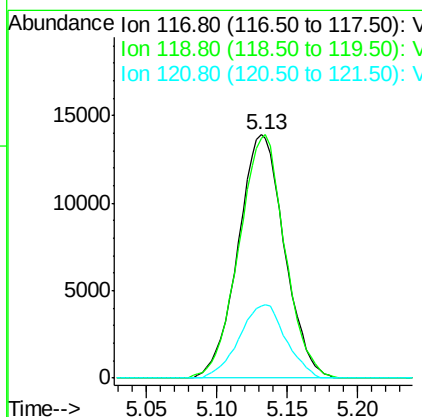
Manual Integrations
APPROVED

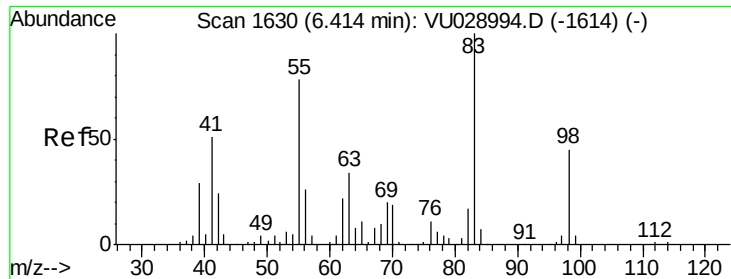
MMDadoda
1/17/2019 9:43:31 AM



#38
Carbon Tetrachloride
Concen: 21.854 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	74.6	111.8
121	29.6	25.0	37.6





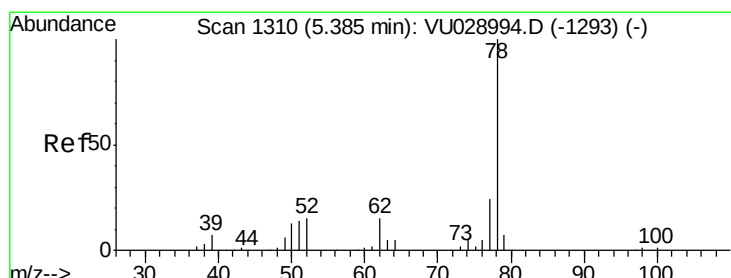
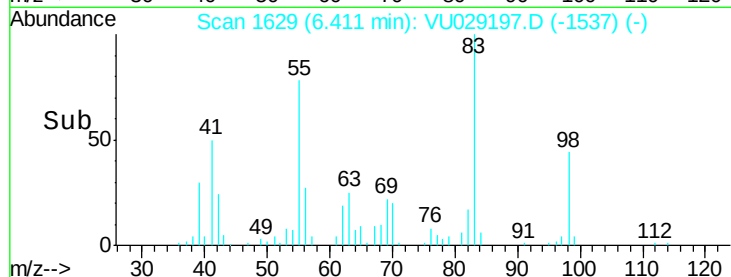
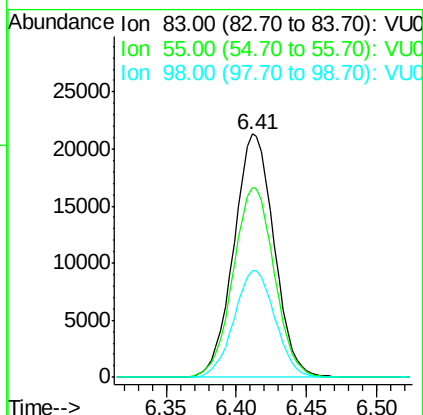
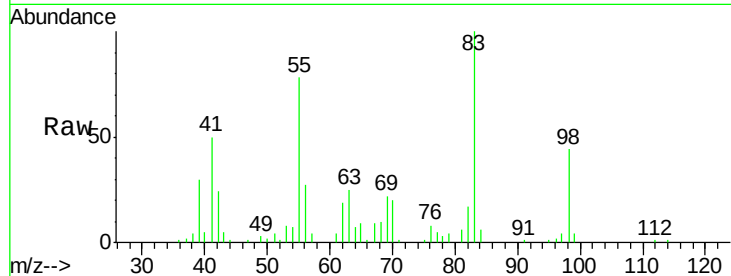
#39
Methylvlcyclohexane
Concen: 19.830 ug/l
RT: 6.41 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.9	62.4	93.6
98	43.7	36.2	54.2

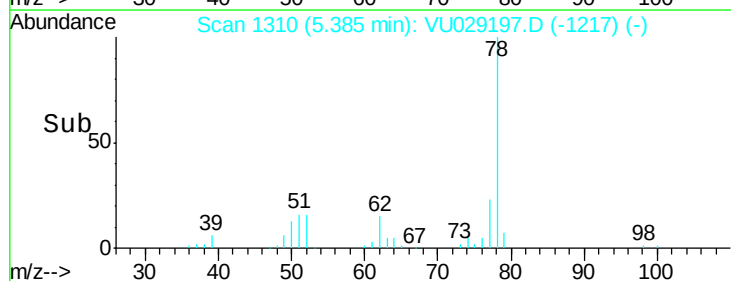
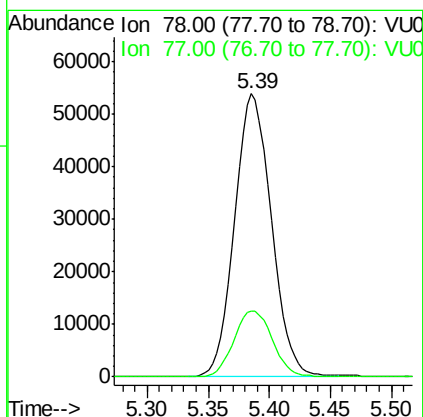
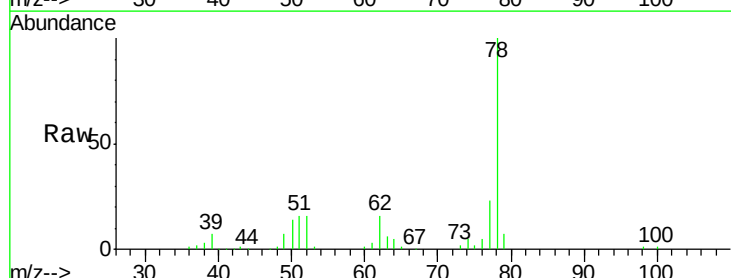
Manual Integrations
APPROVED

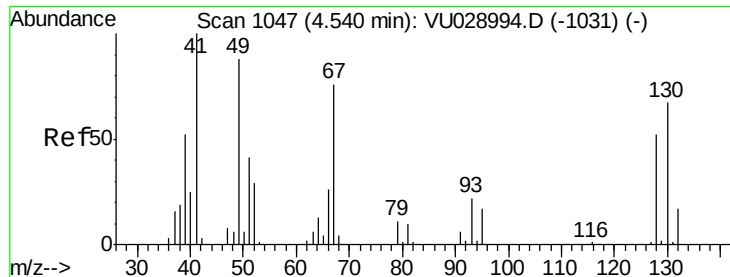
MMDadoda
1/17/2019 9:43:31 AM



#40
Benzene
Concen: 20.719 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.9	28.3





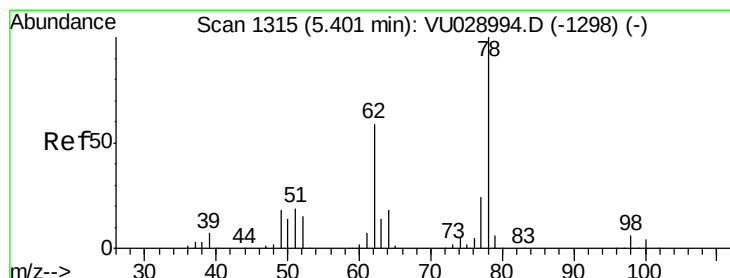
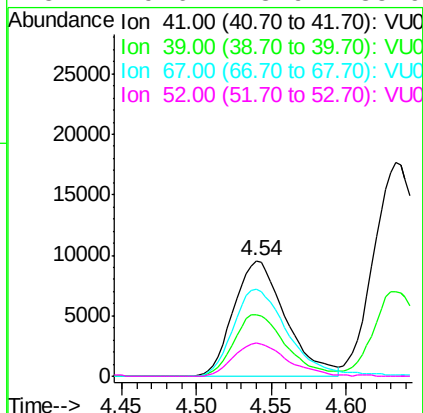
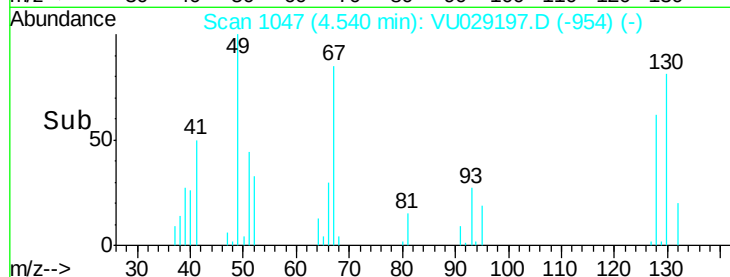
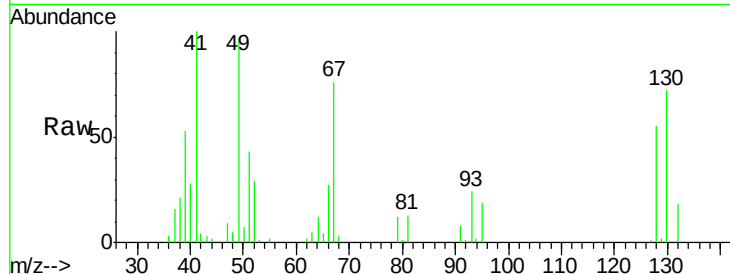
#41
Methacrylonitrile
Concen: 22.470 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.7	42.3	63.5	
67	79.5	64.4	96.6	
52	29.6	23.9	35.9	

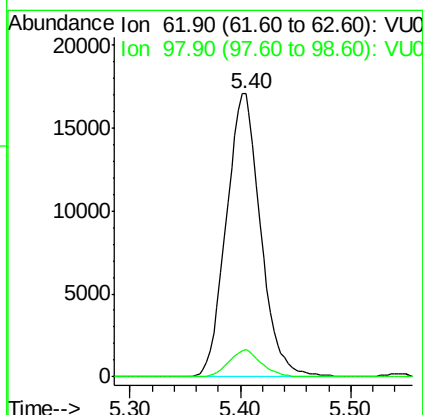
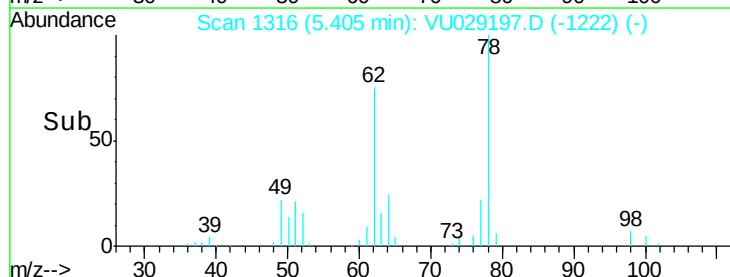
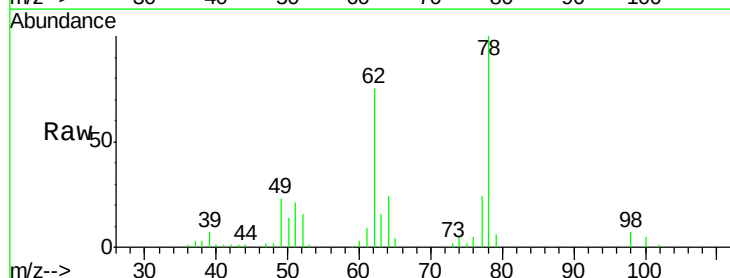
Manual Integrations
APPROVED

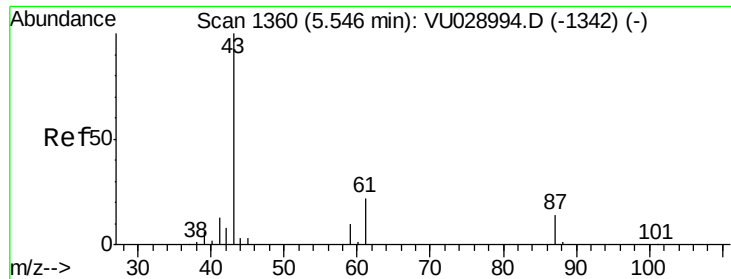
MMDadoda
1/17/2019 9:43:31 AM



#42
1,2-Dichloroethane
Concen: 22.424 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.9	0.0	19.6	





#43

Isopropyl Acetate

Concen: 22.383 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

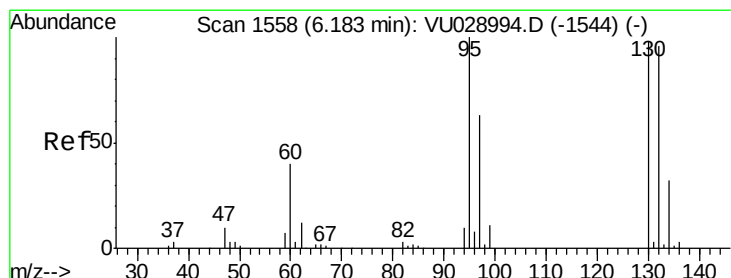
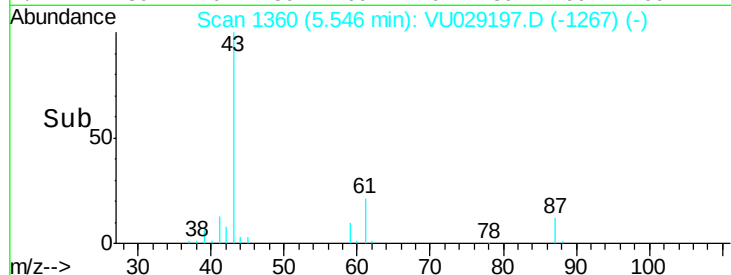
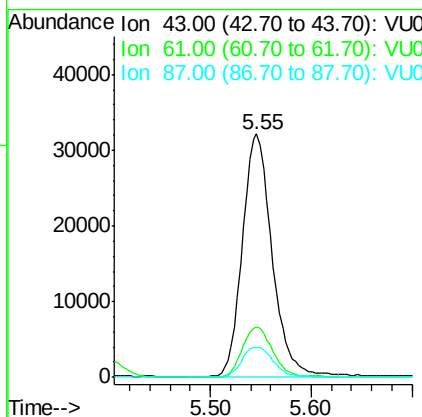
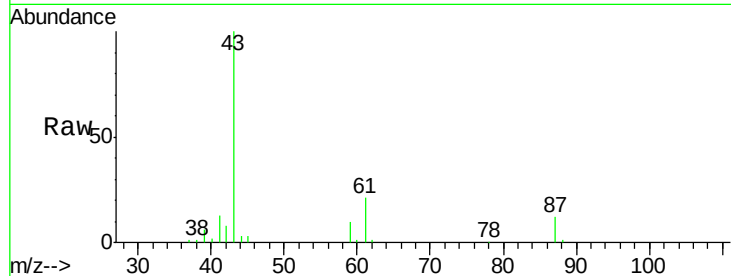
ClientSampleId :

VU0116WBS01

Tot Ion:	43	Resp:	65821
Ion	Ratio	Lower	Upper
43	100		
61	21.1	17.8	26.6
87	13.3	11.3	16.9

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#44

Trichloroethene

Concen: 20.427 ug/l

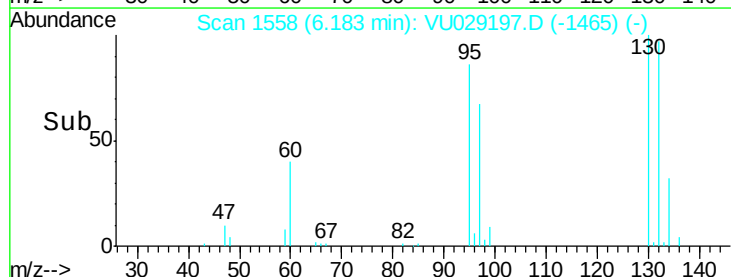
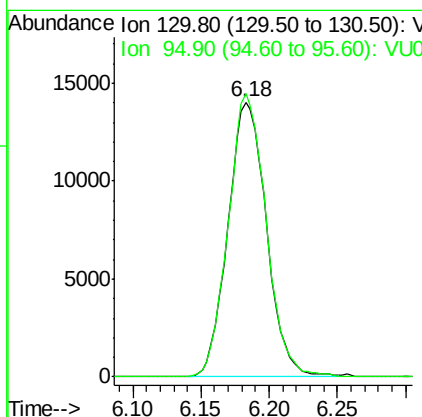
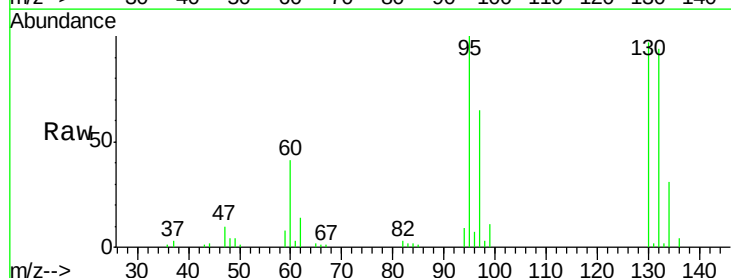
RT: 6.18 min Scan# 1558

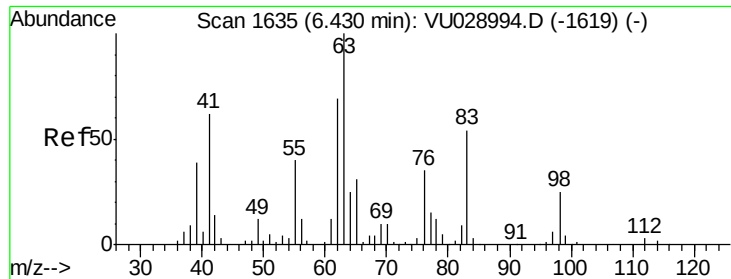
Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion:	130	Resp:	27572
Ion	Ratio	Lower	Upper
130	100		
95	103.2	0.0	205.0





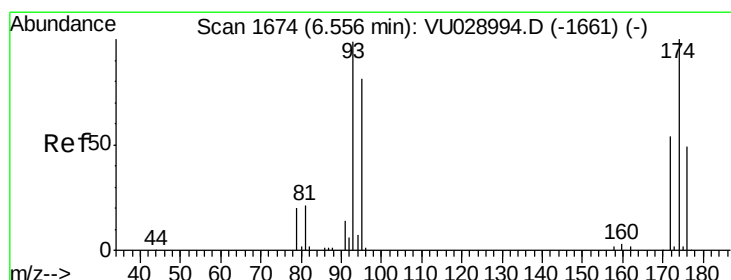
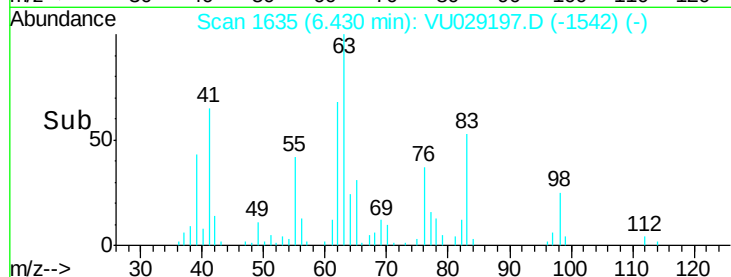
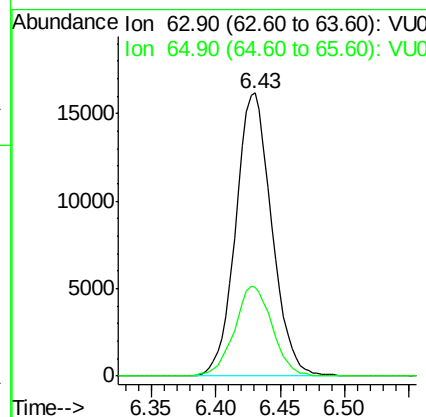
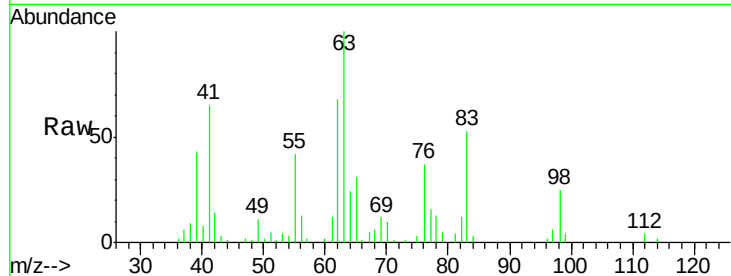
#45
 1,2-Dichloropropane
 Concen: 21.839 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Tot Ion: 63 Resp: 31418
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.1 37.7

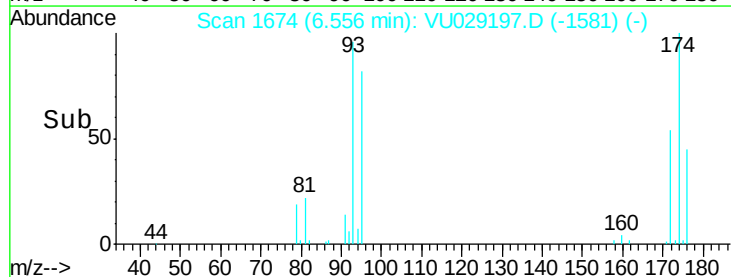
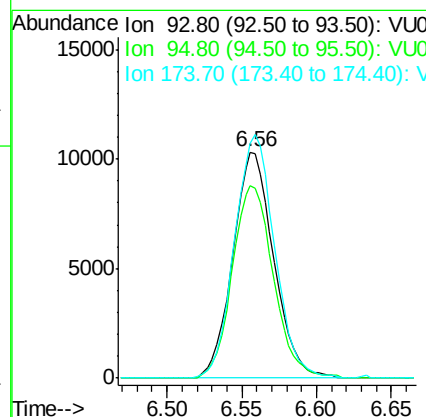
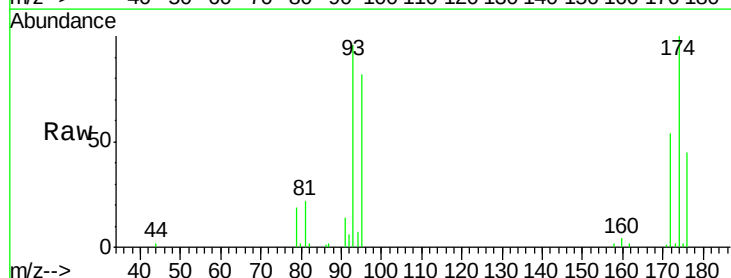
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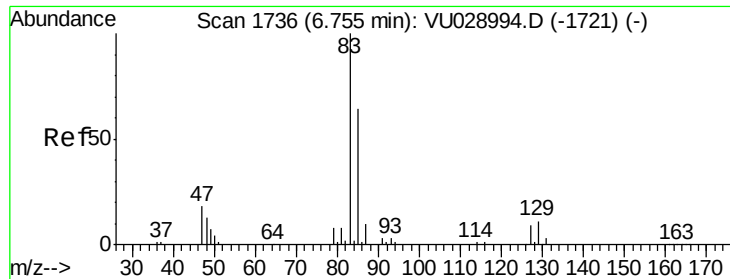
MMDadoda
 1/17/2019 9:43:31 AM



#46
 Dibromomethane
 Concen: 21.300 ug/l
 RT: 6.56 min Scan# 1674
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion: 93 Resp: 19589
 Ion Ratio Lower Upper
 93 100
 95 85.6 67.2 100.8
 174 106.1 82.6 123.8





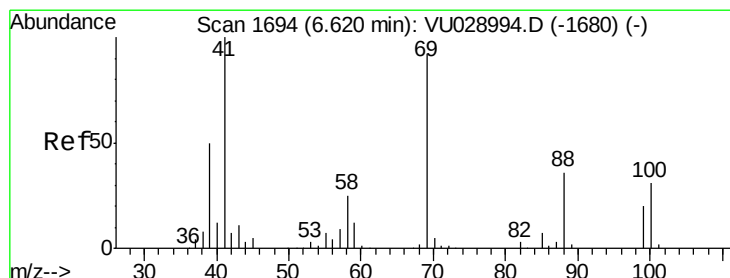
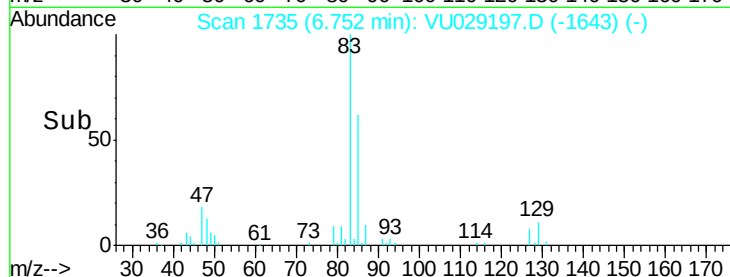
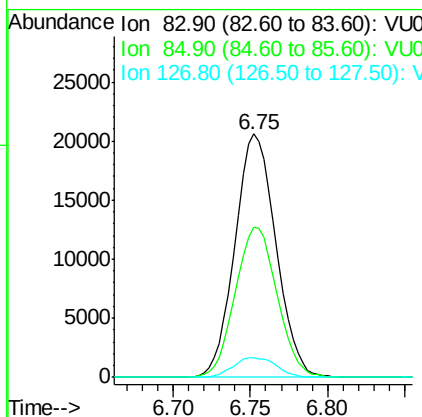
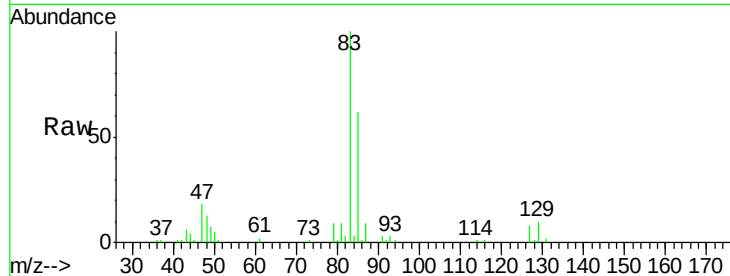
#47
Bromodichloromethane
Concen: 22.386 ug/l
RT: 6.75 min Scan# 1735
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.4	77.2
127	8.0	7.0	10.4

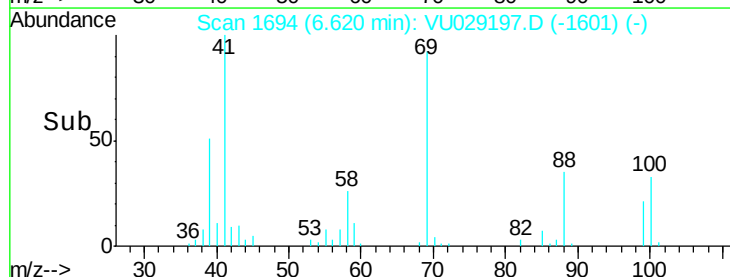
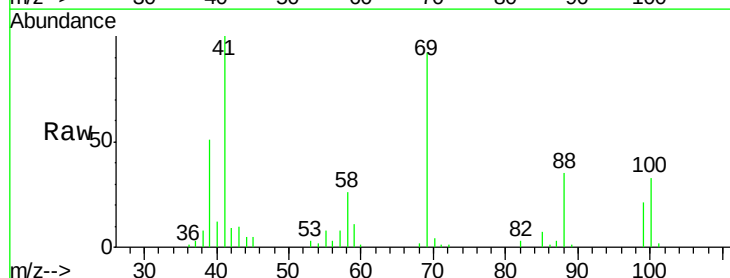
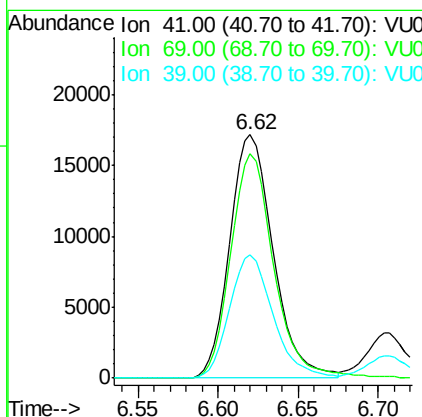
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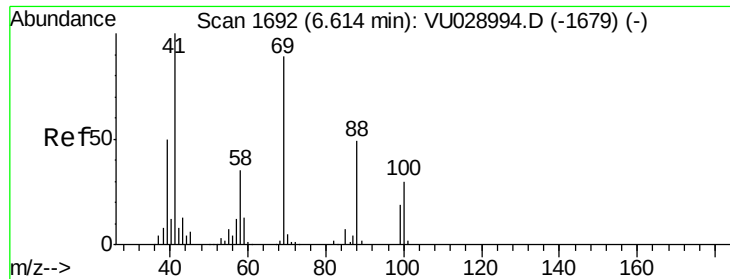
MMDadoda
1/17/2019 9:43:31 AM



#48
Methyl methacrylate
Concen: 22.289 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
41	100		
69	91.5	73.6	110.4
39	50.6	39.6	59.4





#49

1,4-Dioxane

Concen: 464.755 ug/l

RT: 6.61 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

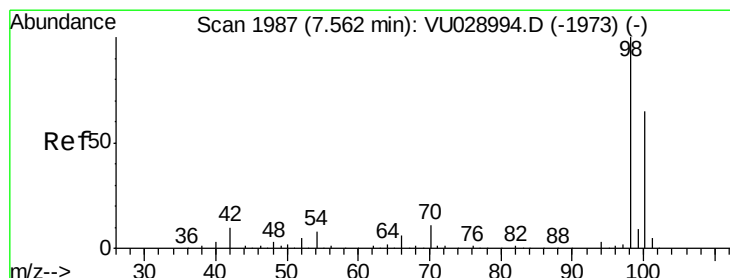
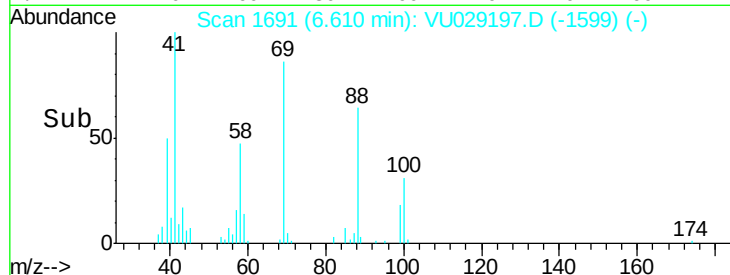
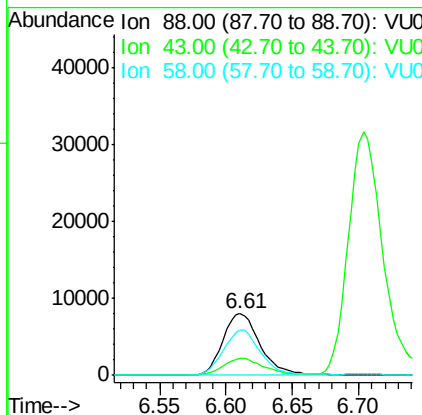
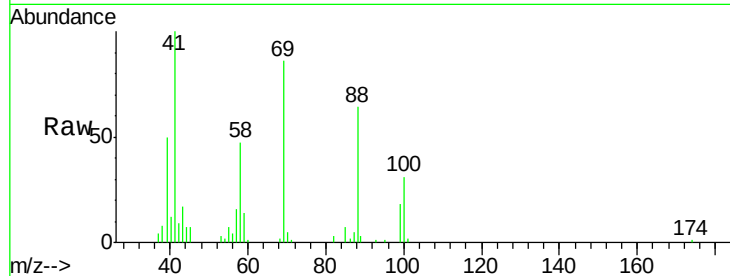
ClientSampleId :

VU0116WBS01

Tot Ion:	88	Resp:	15771
Ion	Ratio	Lower	Upper
88	100		
43	30.0	23.0	34.4
58	73.7	57.9	86.9

Manual Integrations
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1/17/2019 9:43:31 AM



#50

Toluene-d8

Concen: 51.368 ug/l

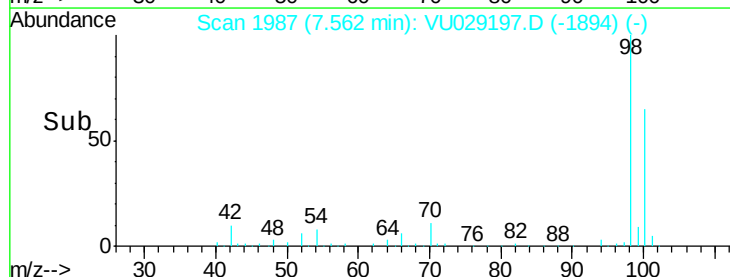
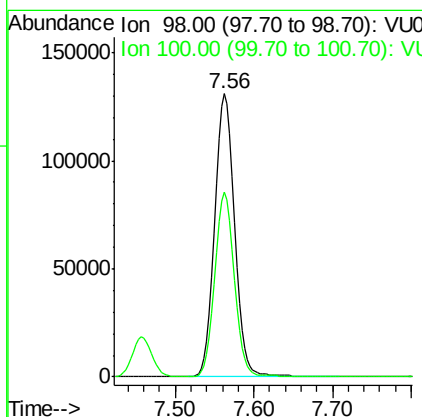
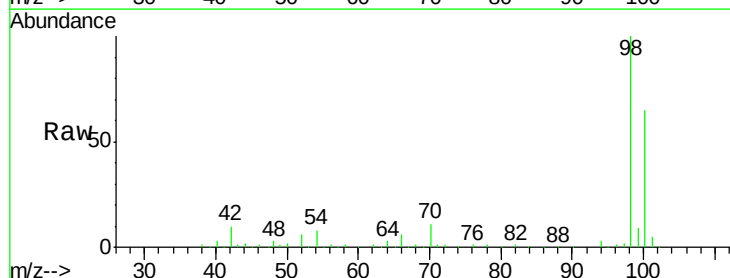
RT: 7.56 min Scan# 1987

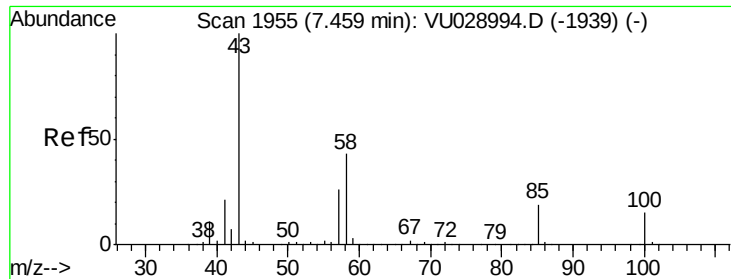
Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion:	98	Resp:	229689
Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 111.511 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion: 43 Resp: 223170

Ion Ratio Lower Upper

43 100

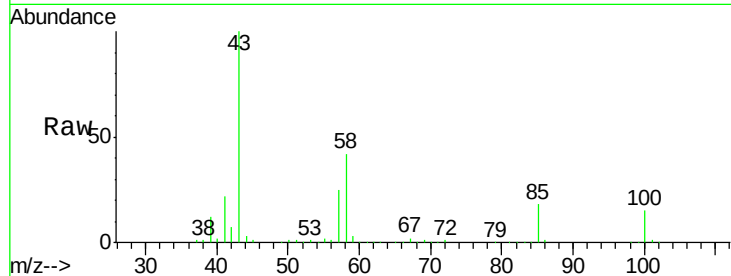
58 41.6 33.9 50.9

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

150000

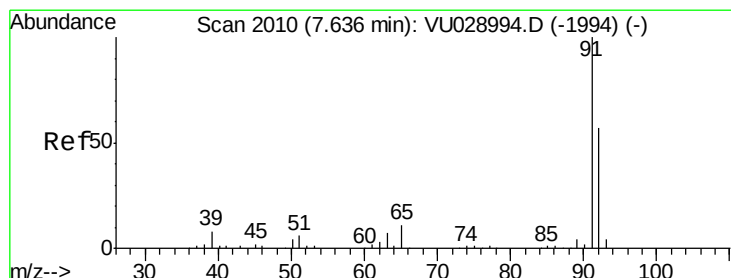
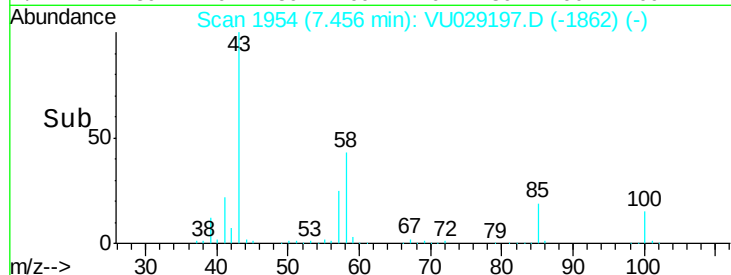
100000

50000

0

7.40 7.50

Time-->



#52

Toluene

Concen: 21.111 ug/l

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU029197.D

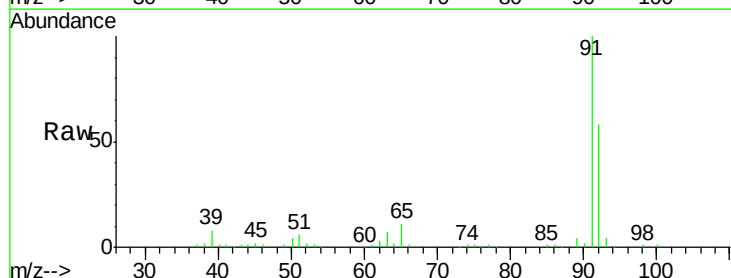
Acq: 16 Jan 2019 10:13

Tgt Ion: 92 Resp: 70014

Ion Ratio Lower Upper

92 100

91 174.6 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

80000

60000

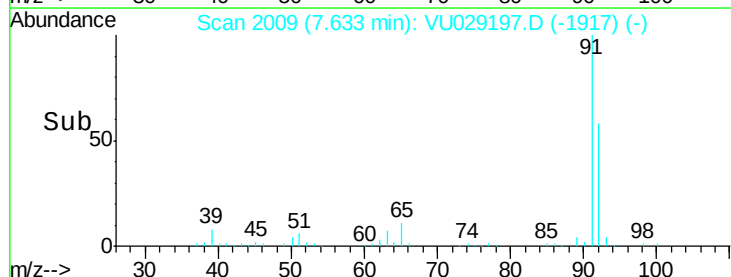
40000

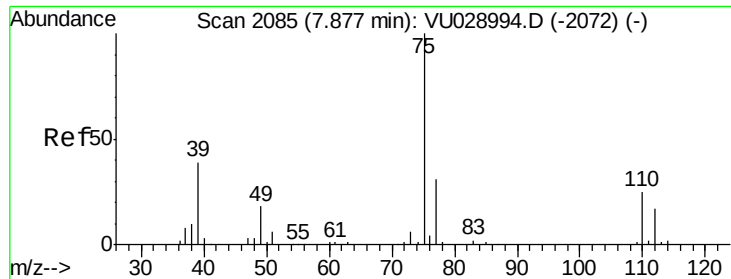
20000

0

7.55 7.60 7.65 7.70

Time-->





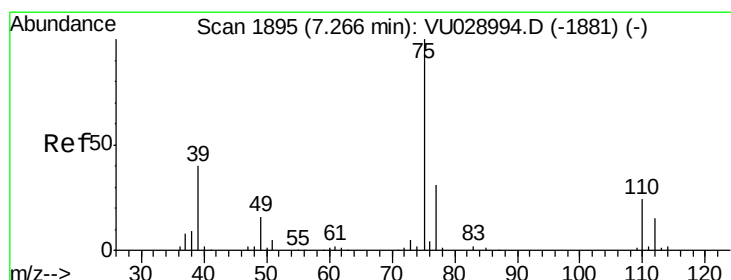
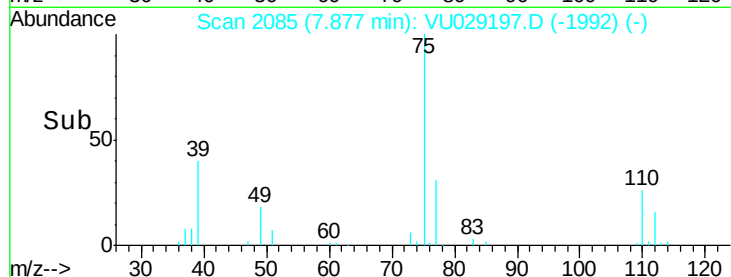
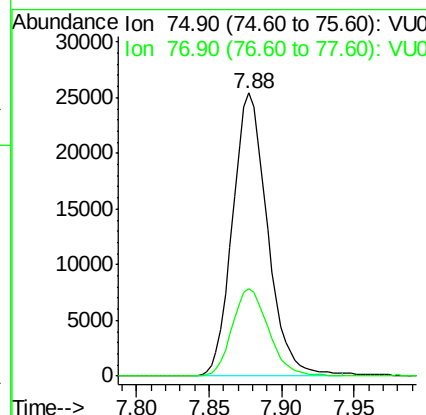
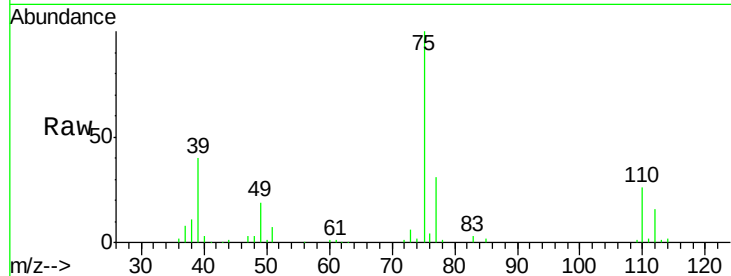
#53
t-1,3-Dichloropropene
Concen: 20.942 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion: 75 Resp: 42596
Ion Ratio Lower Upper
75 100
77 30.8 25.0 37.4

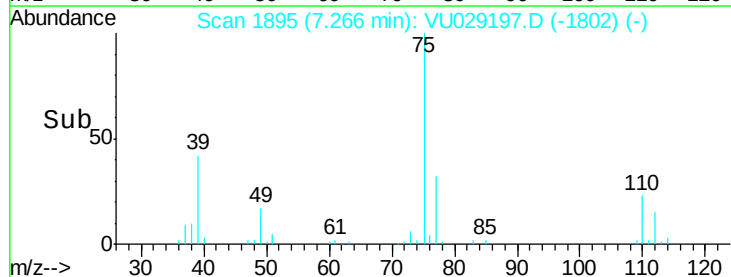
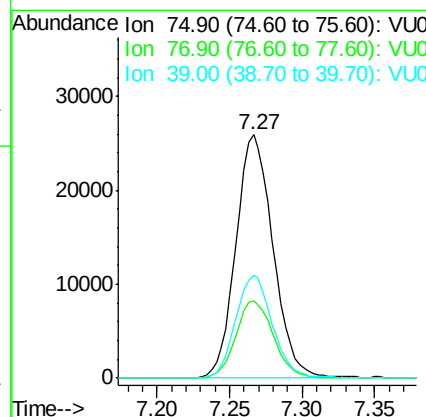
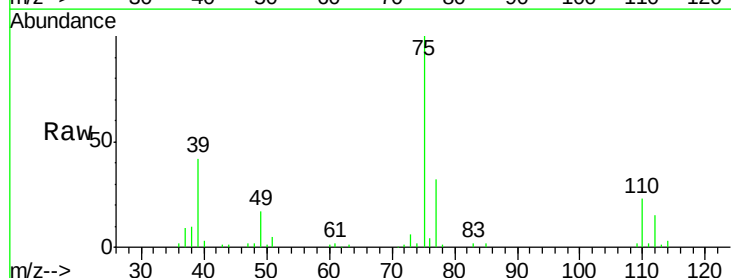
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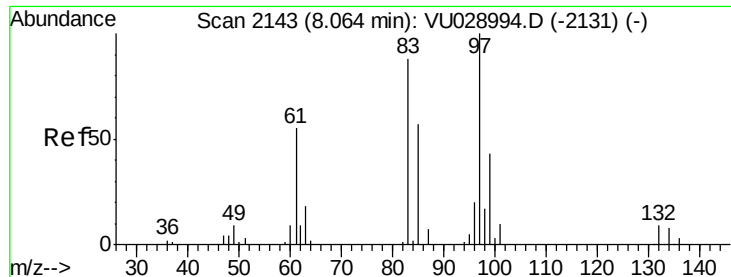
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 21.017 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 75 Resp: 46193
Ion Ratio Lower Upper
75 100
77 31.8 25.0 37.6
39 42.5 32.2 48.4





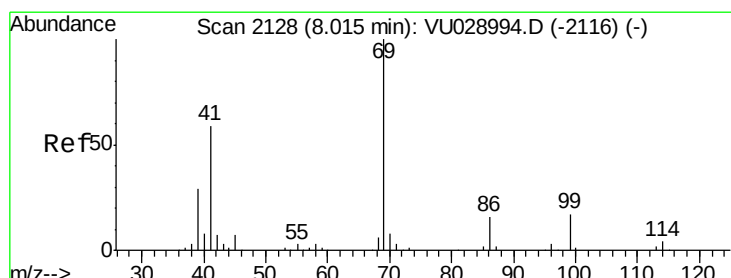
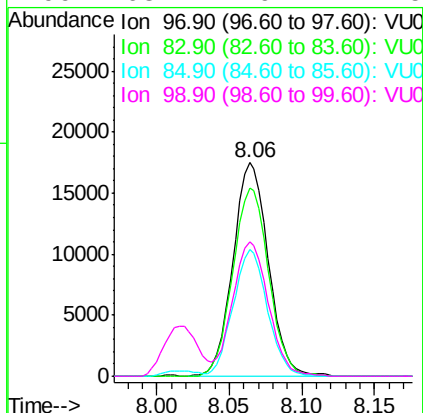
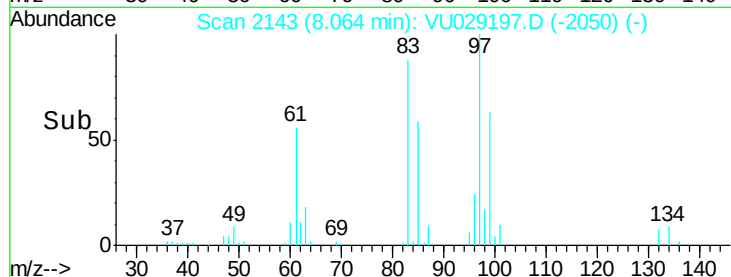
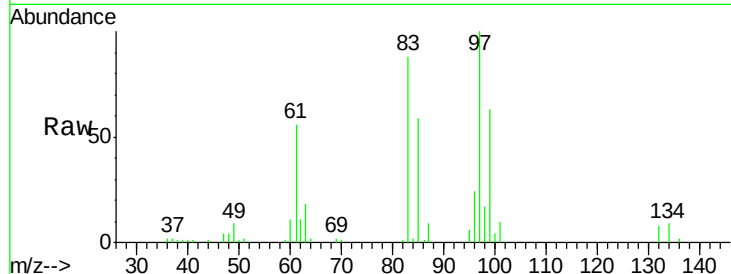
#55
 1,1,2-Trichloroethane
 Concen: 22.269 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		29587		
83	88.1	69.8	104.8		
85	59.4	47.3	70.9		
99	63.2	49.7	74.5		

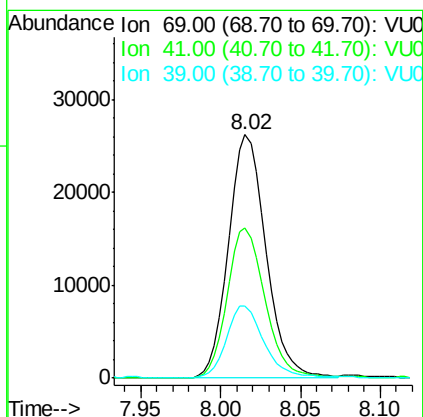
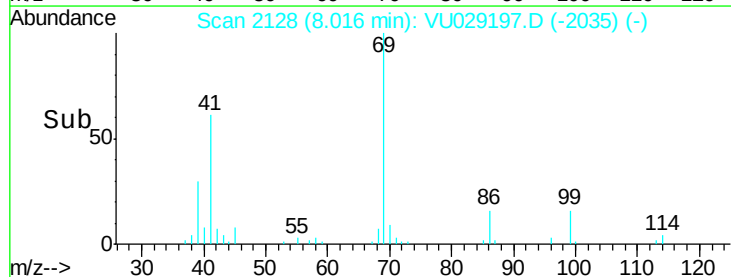
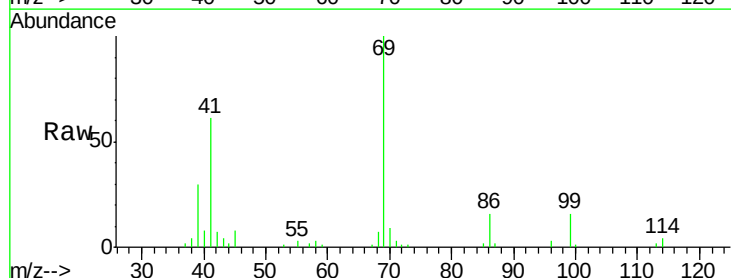
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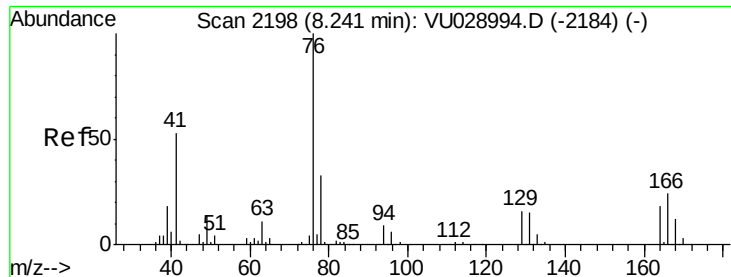
MMDadoda
 1/17/2019 9:43:31 AM



#56
 Ethyl methacrylate
 Concen: 20.519 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		41999		
41	62.2	47.5	71.3		
39	29.6	22.5	33.7		





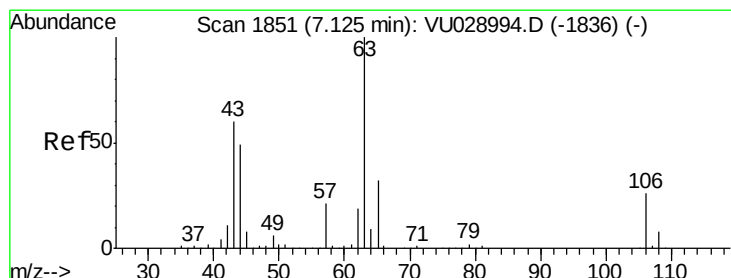
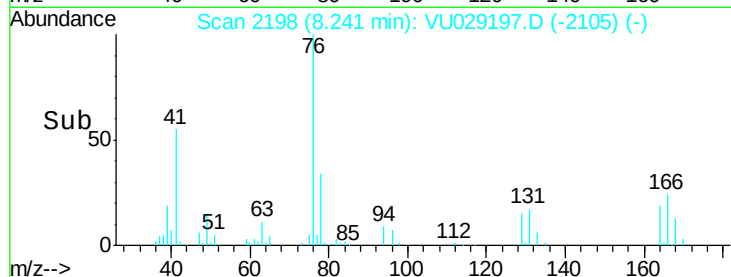
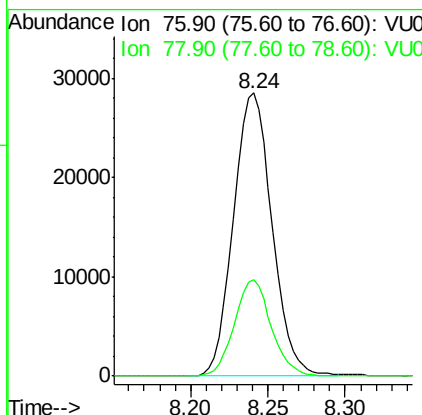
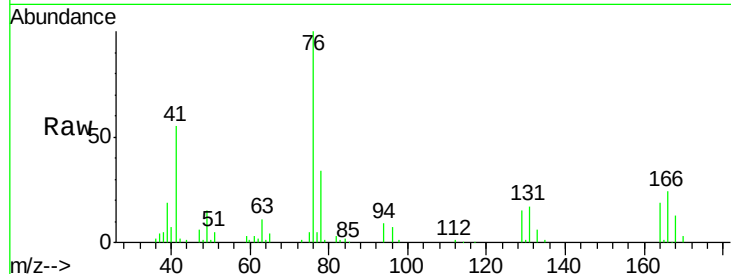
#57
 1,3-Dichloropropane
 Concen: 21.734 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Tot Ion: 76 Resp: 49410
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.0 39.0

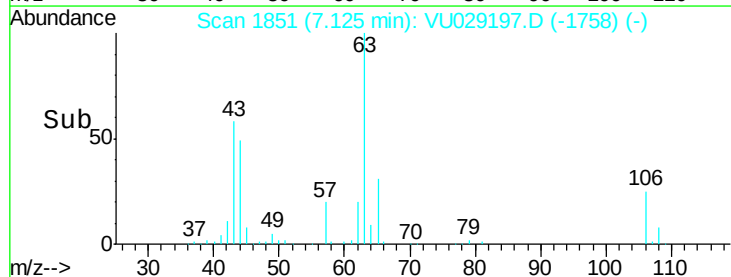
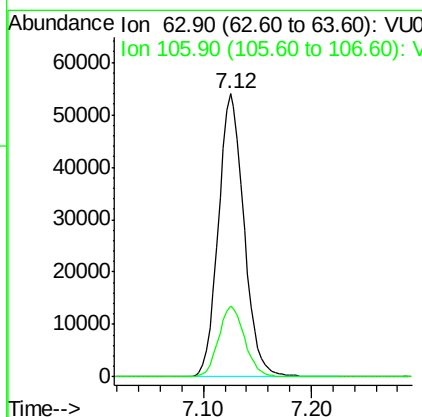
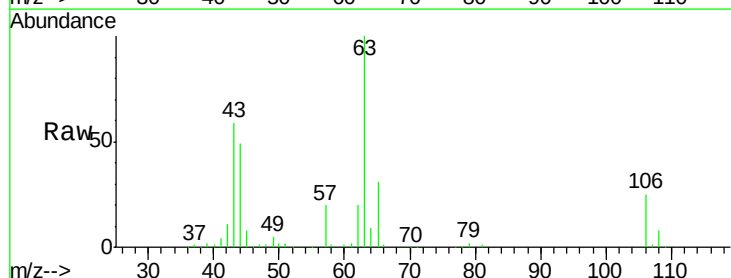
Manual Integrations
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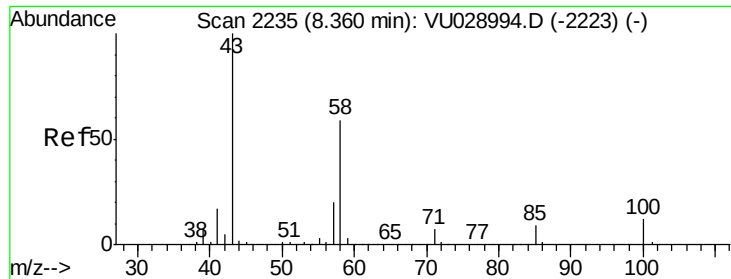
MMDadoda
 1/17/2019 9:43:31 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.383 ug/l
 RT: 7.12 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion: 63 Resp: 89462
 Ion Ratio Lower Upper
 63 100
 106 25.4 20.6 31.0





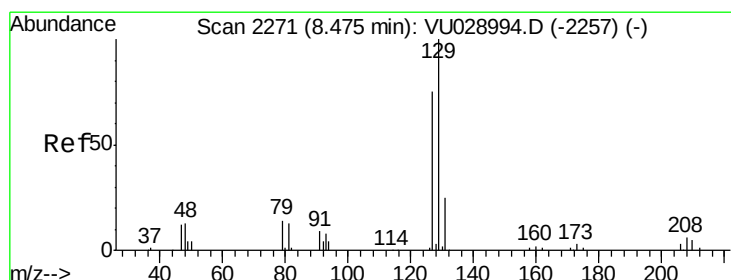
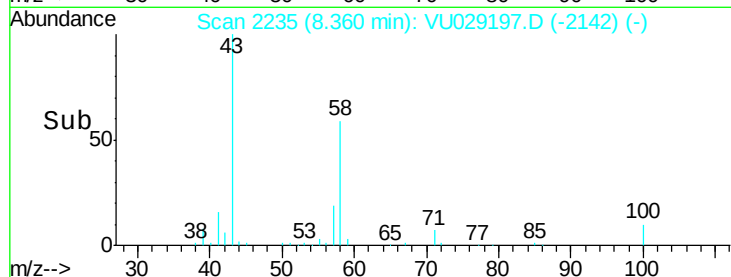
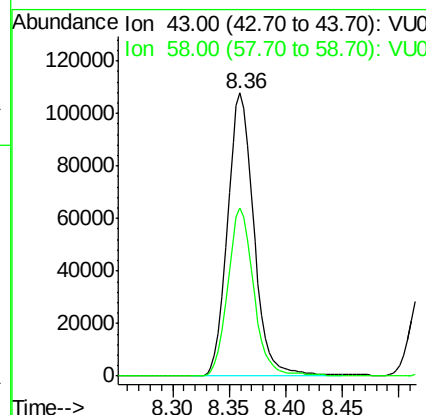
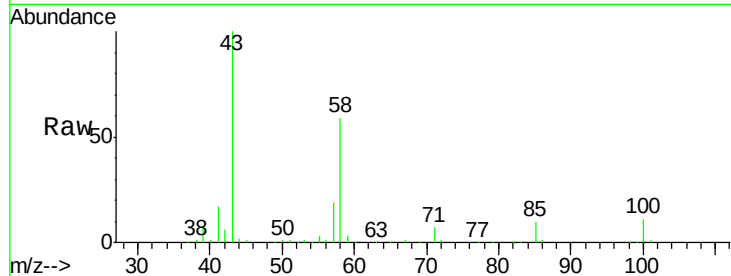
#59
2-Hexanone
Concen: 111.478 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion: 43 Resp: 175129
Ion Ratio Lower Upper
43 100
58 58.3 29.8 89.4

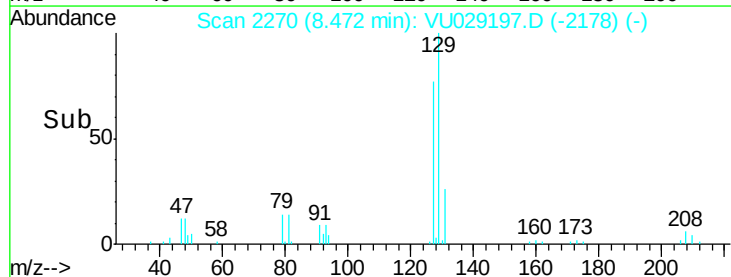
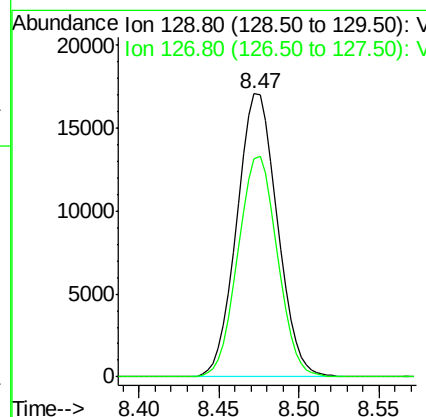
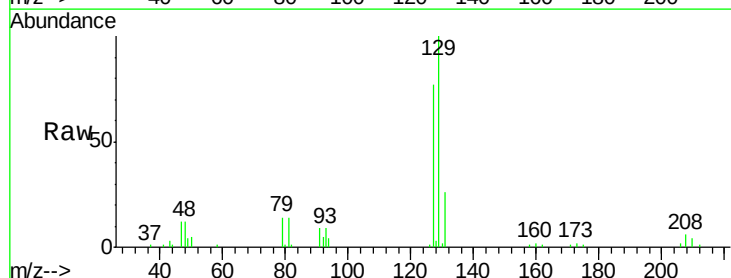
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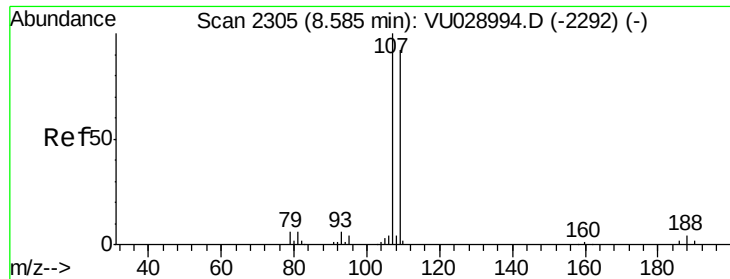
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#60
Dibromochloromethane
Concen: 22.416 ug/l
RT: 8.47 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 129 Resp: 29505
Ion Ratio Lower Upper
129 100
127 75.6 38.0 114.0





#61

1,2-Dibromoethane

Concen: 20.995 ug/l

RT: 8.58 min Scan# 2304

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion:107 Resp: 30252

Ion Ratio Lower Upper

107 100

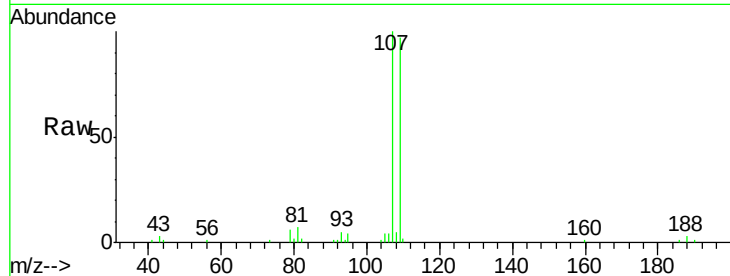
109 97.3 75.5 113.3

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

20000

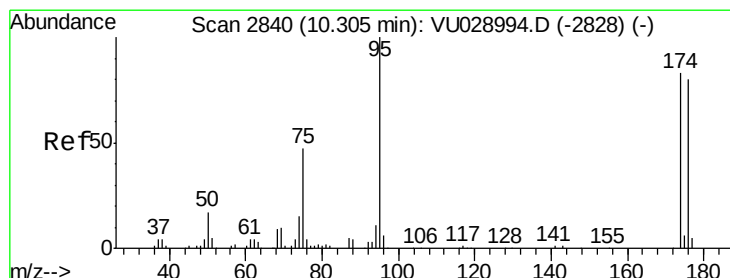
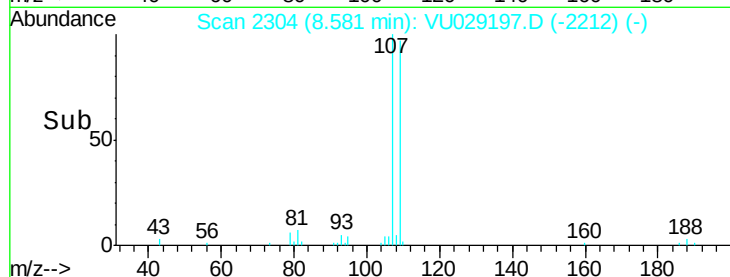
15000

10000

5000

0

Time--> 8.50 8.55 8.60 8.65



#62

4-Bromofluorobenzene

Concen: 50.304 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

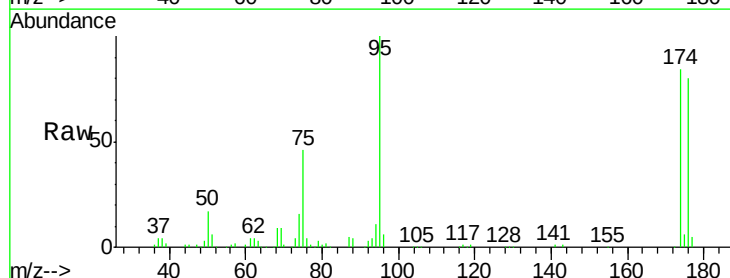
Tgt Ion: 95 Resp: 80837

Ion Ratio Lower Upper

95 100

174 83.2 0.0 170.6

176 80.7 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.30

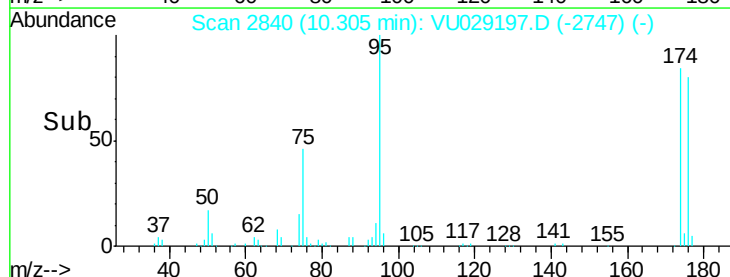
60000

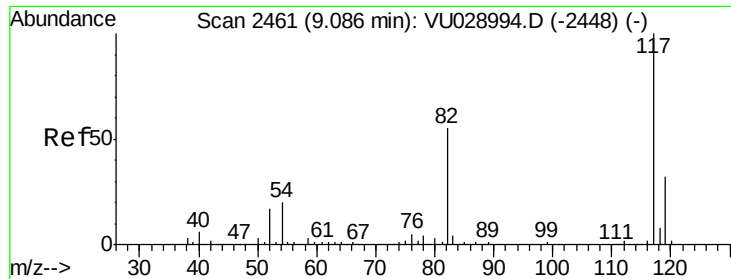
40000

20000

0

Time--> 10.30 10.40





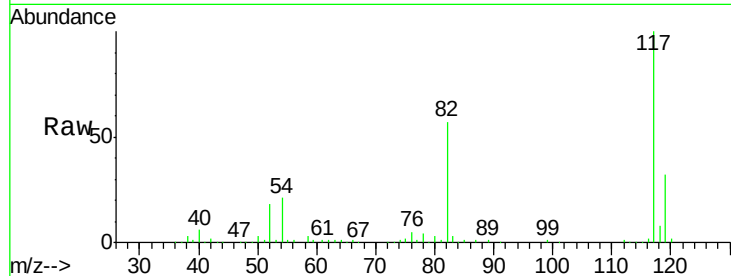
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

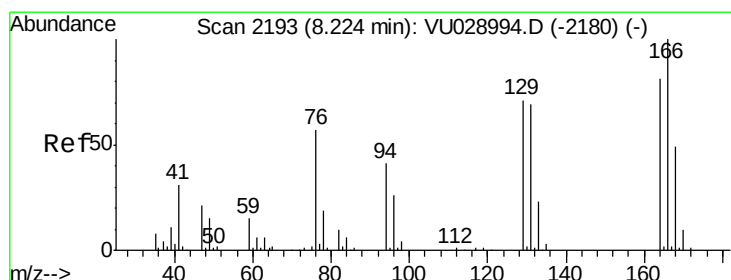
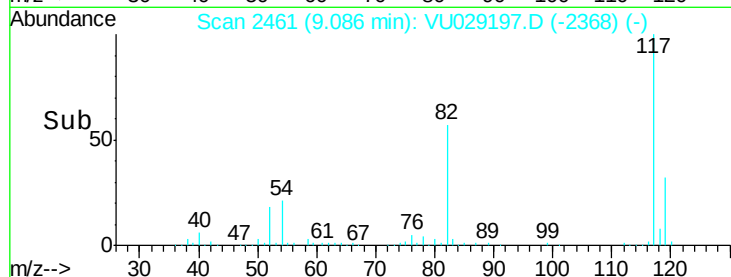
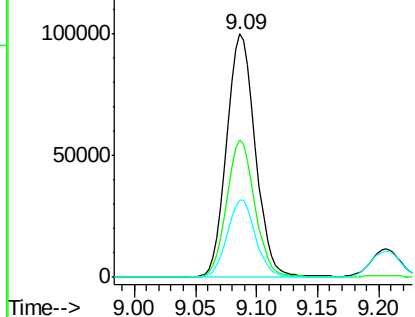
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	43.9	65.9
119	31.9	26.0	39.0

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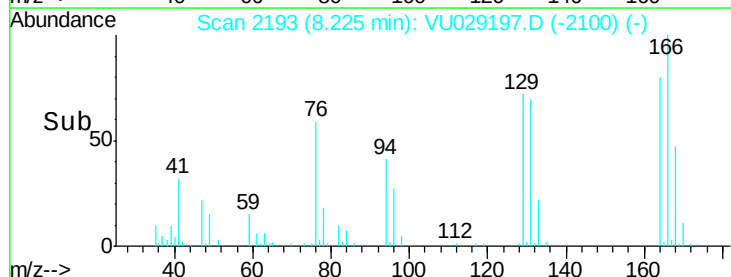
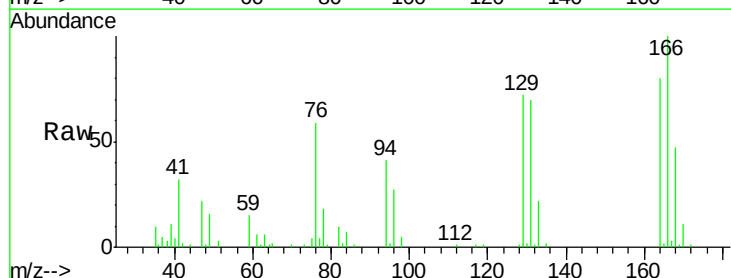
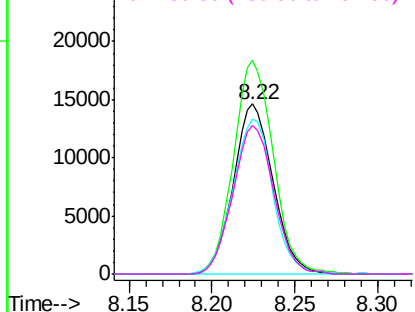
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

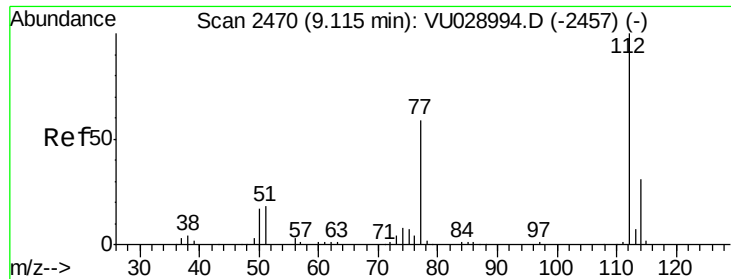


#64
Tetrachloroethene
Concen: 20.469 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.6	99.4	149.0
129	90.8	70.5	105.7
131	87.3	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: 20.628 ug/l

RT: 9.12 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion:112 Resp: 76303

Ion Ratio Lower Upper

112 100

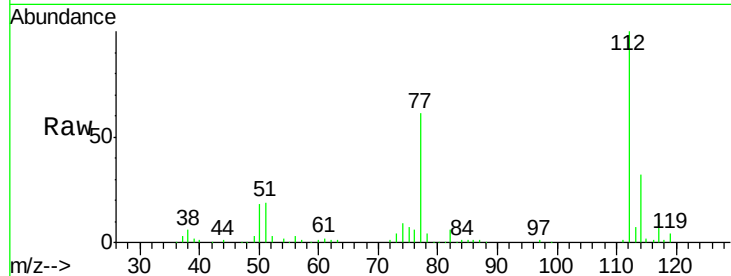
114 31.6 25.0 37.6

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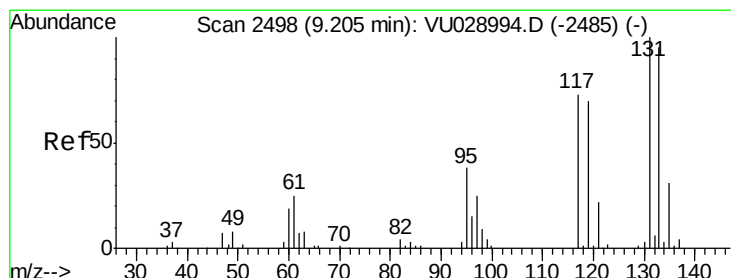
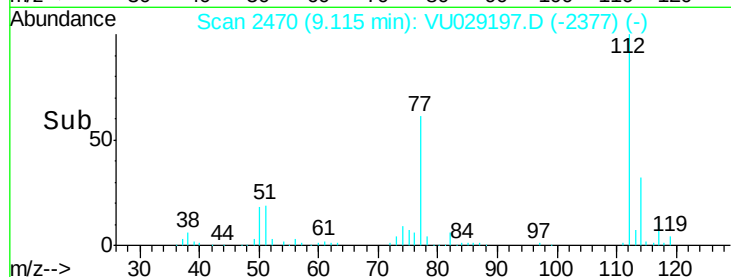
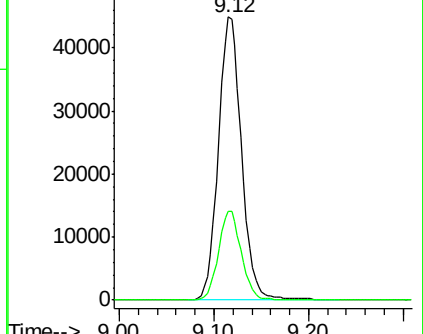
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.866 ug/l

RT: 9.21 min Scan# 2498

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

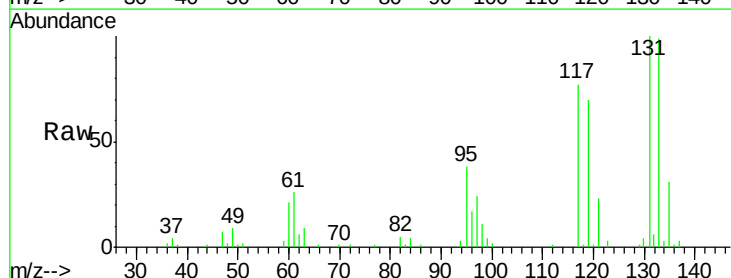
Tgt Ion:131 Resp: 26248

Ion Ratio Lower Upper

131 100

133 96.3 48.2 144.6

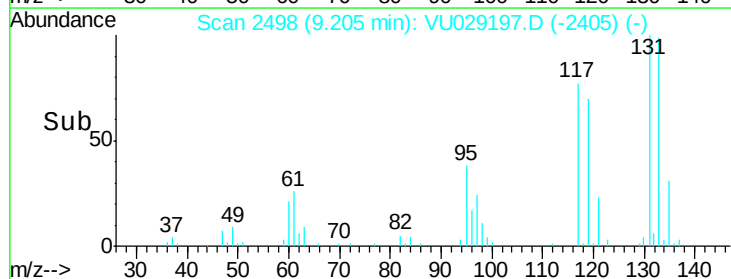
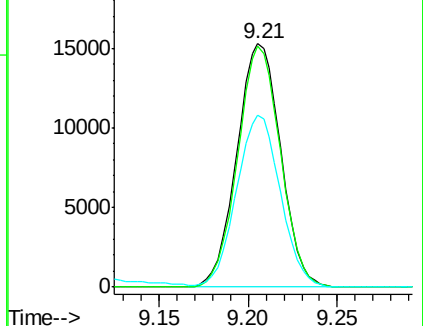
119 70.7 35.4 106.3

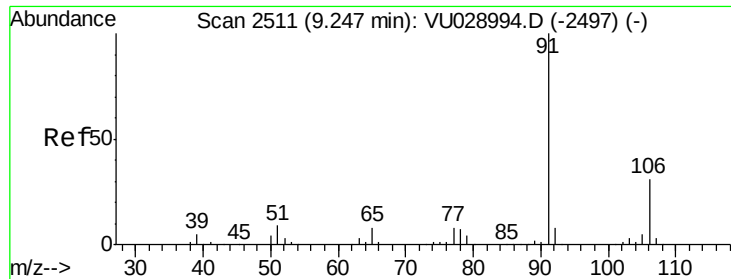


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





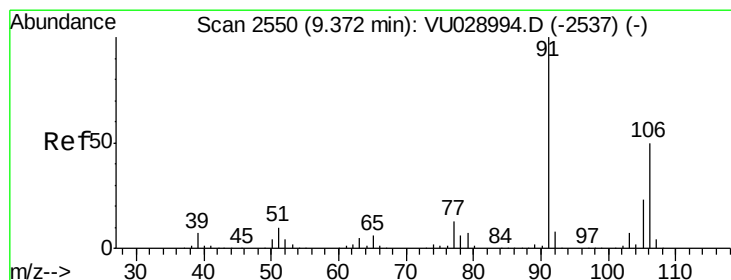
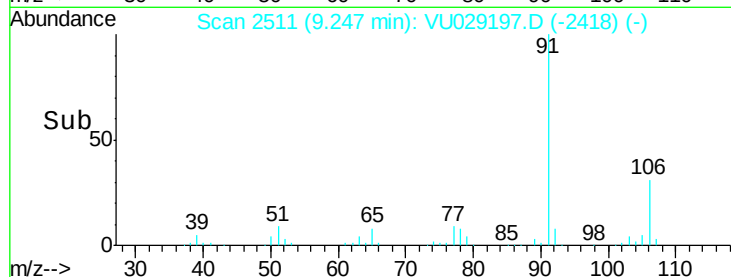
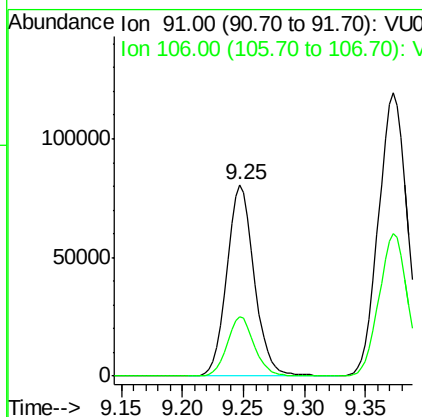
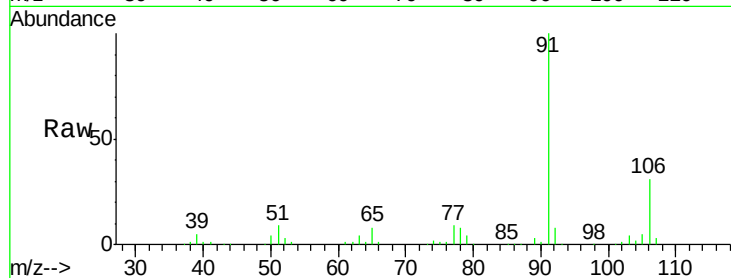
#67
Ethyl Benzene
Concen: 20.596 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion: 91 Resp: 127194
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.4

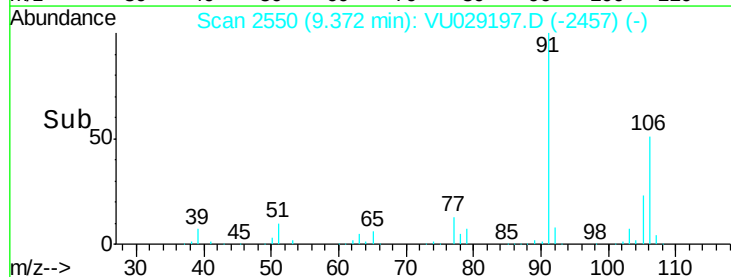
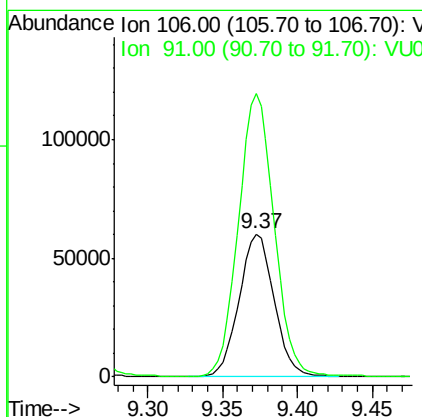
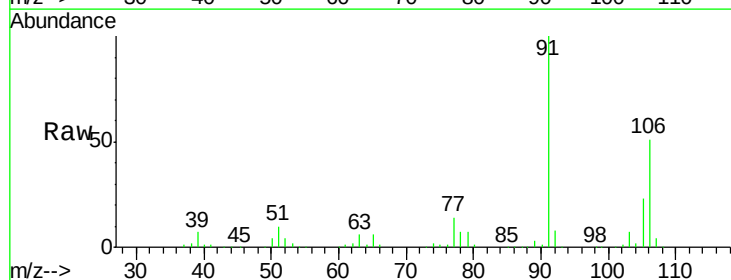
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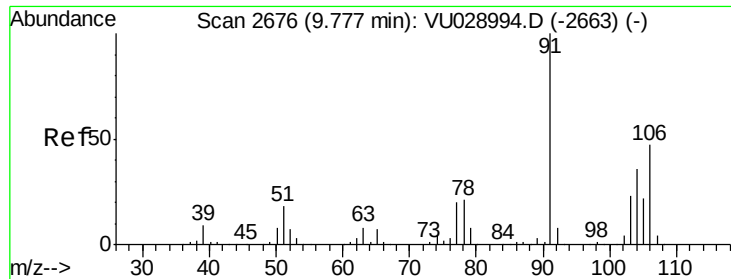
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#68
m/p-Xylenes
Concen: 41.023 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 106 Resp: 98436
Ion Ratio Lower Upper
106 100
91 202.9 161.7 242.5





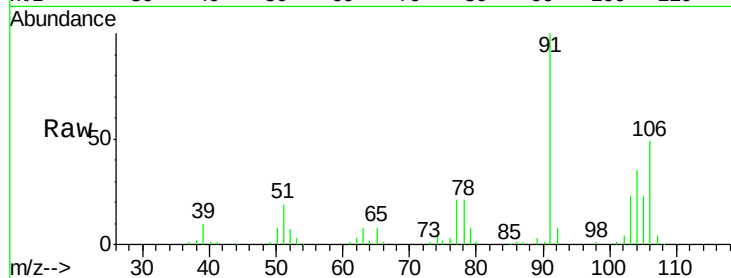
#69
o-Xylene
Concen: 20.848 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

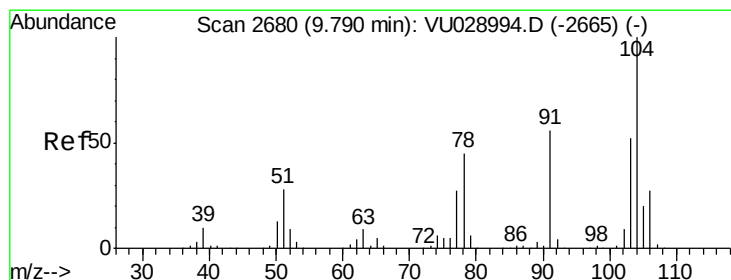
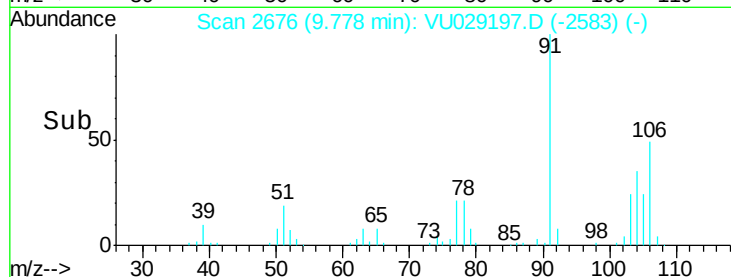
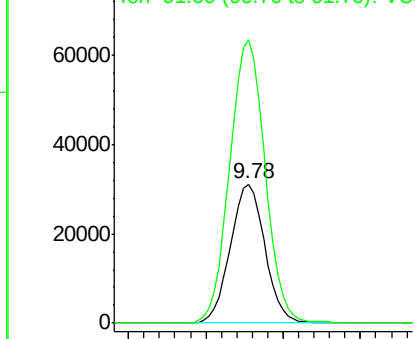
Tot Ion:106 Resp: 48202
Ion Ratio Lower Upper
106 100
91 209.0 106.1 318.3

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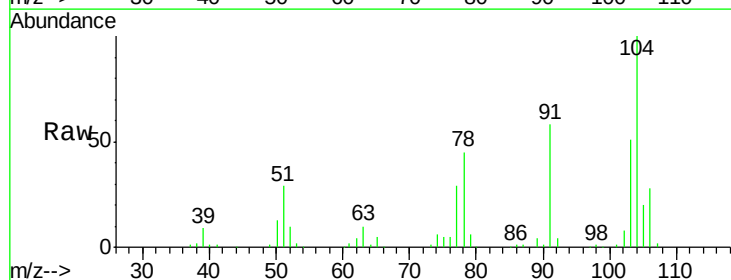


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

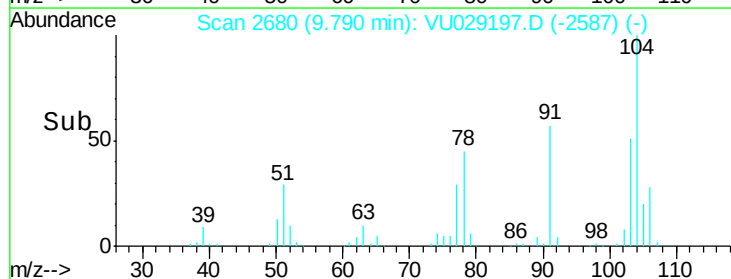
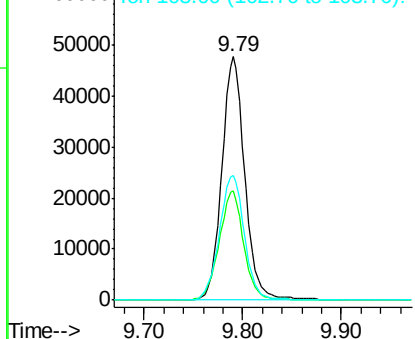


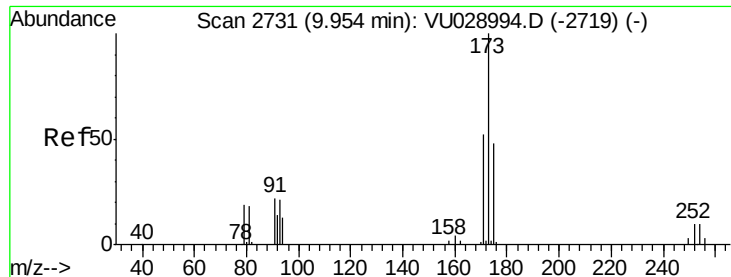
#70
Styrene
Concen: 20.565 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion:104 Resp: 77948
Ion Ratio Lower Upper
104 100
78 47.6 38.6 58.0
103 55.8 44.5 66.7



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





#71

Bromoform

Concen: 21.720 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

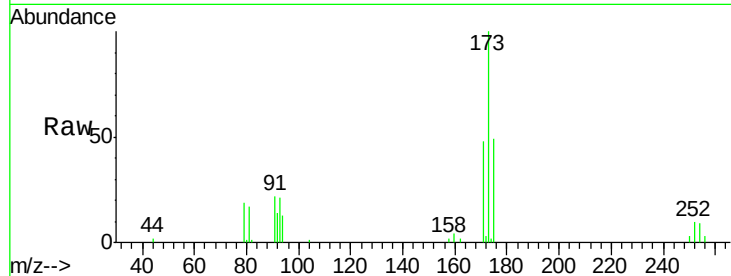
ClientSampleId :

VU0116WBS01

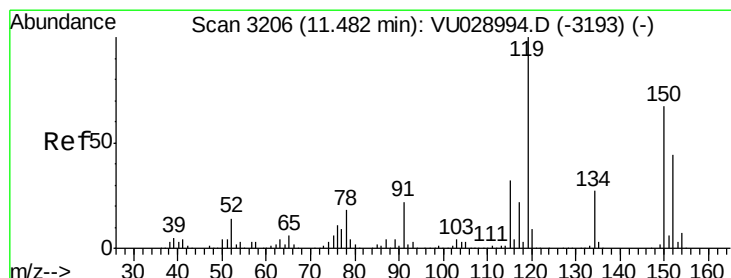
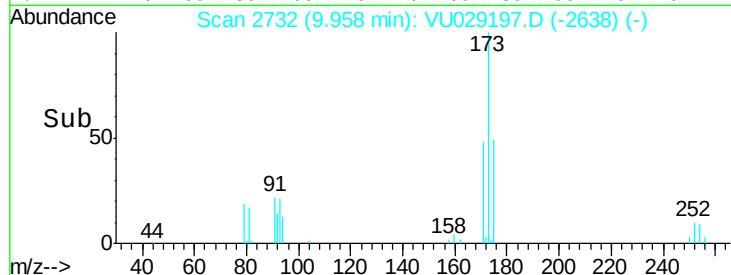
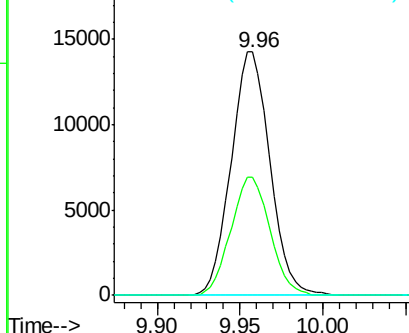
Tot Ion:	173	Resp:	23216
Ion Ratio	Lower	Upper	
173	100		
175	48.8	23.8	71.2
254	0.0	0.0	0.0

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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

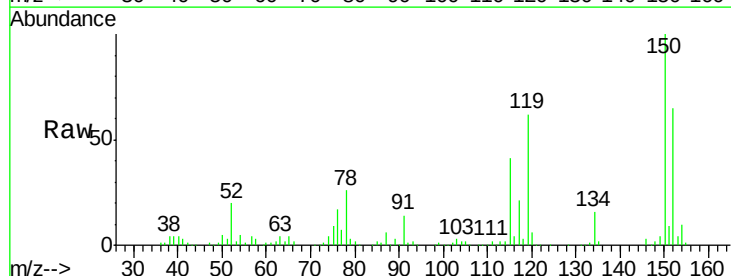
RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

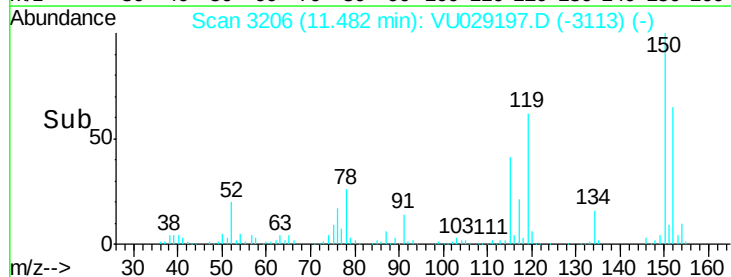
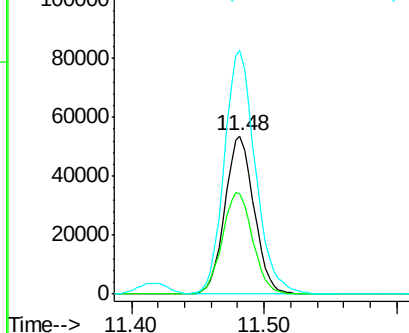
Lab File: VU029197.D

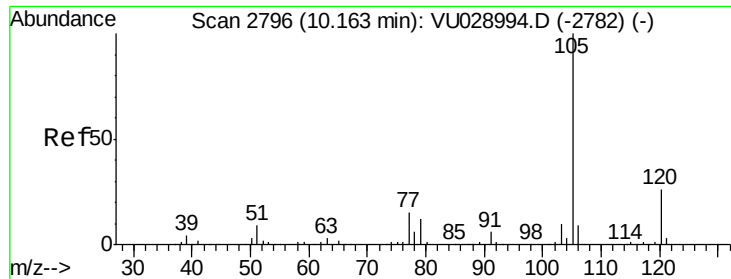
Acq: 16 Jan 2019 10:13

Tgt Ion:	152	Resp:	82062
Ion Ratio	Lower	Upper	
152	100		
115	67.0	40.1	120.3
150	164.3	0.0	345.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.458 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion:105 Resp: 124264

Ion Ratio Lower Upper

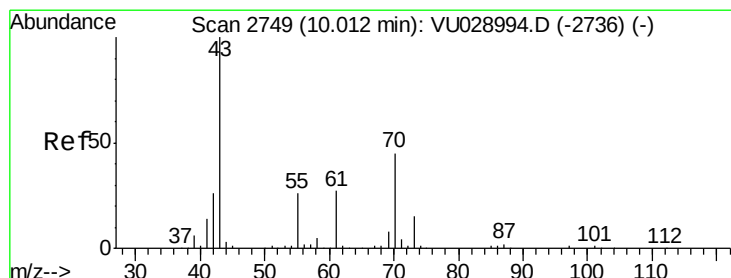
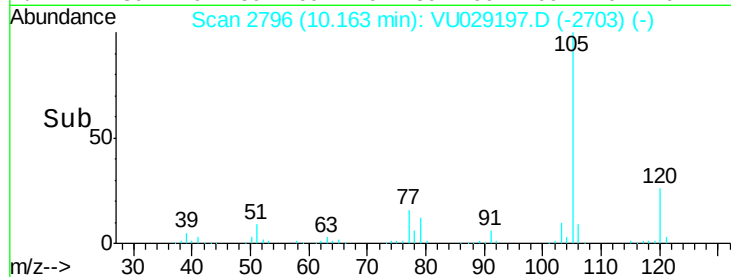
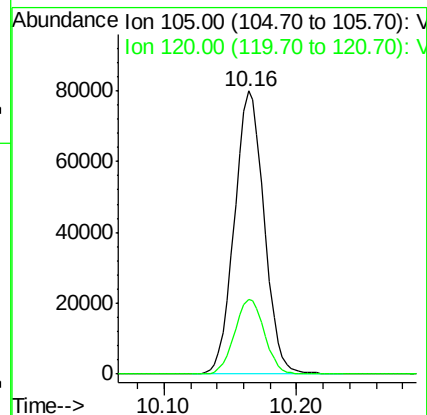
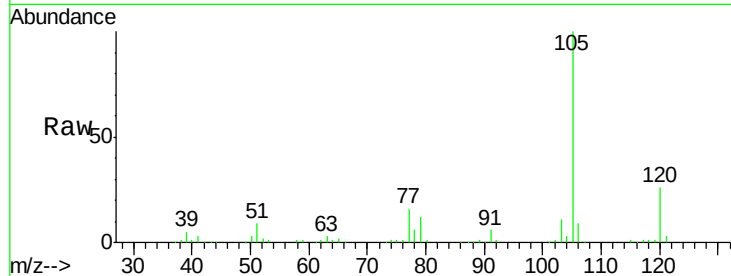
105 100

120 26.6 13.2 39.5

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#74

N-ethyl acetate

Concen: 20.499 ug/l

RT: 10.01 min Scan# 2748

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion: 43 Resp: 53654

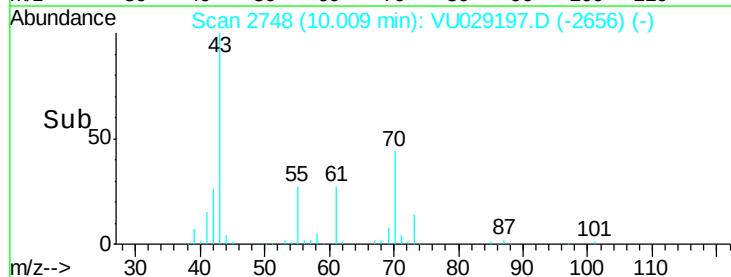
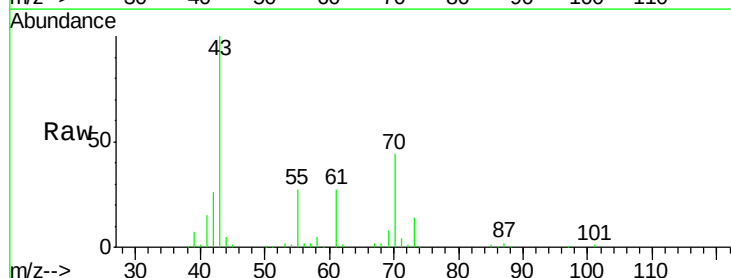
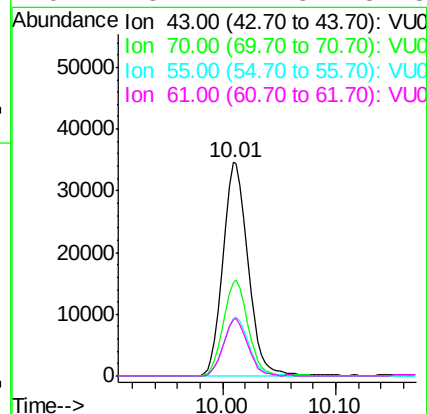
Ion Ratio Lower Upper

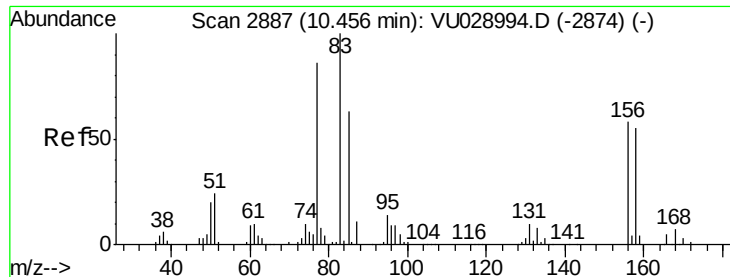
43 100

70 44.0 36.3 54.5

55 27.2 20.5 30.7

61 25.7 21.8 32.8





#75

1,1,2,2-Tetrachloroethane

Concen: 20.823 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

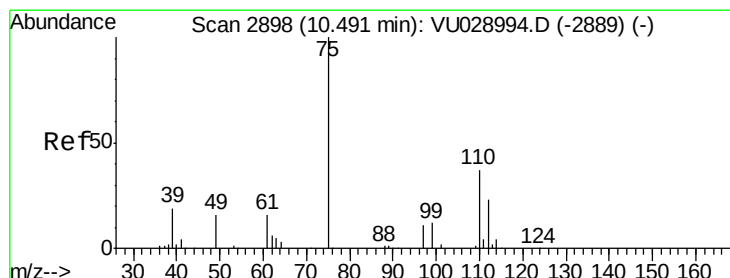
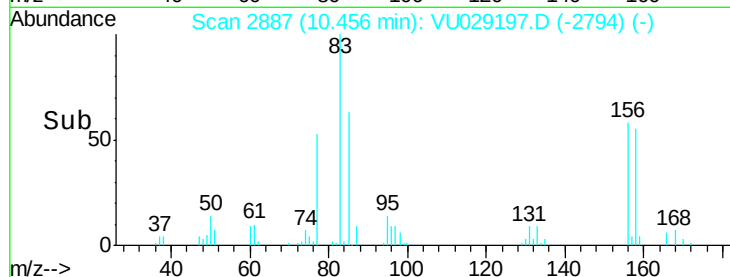
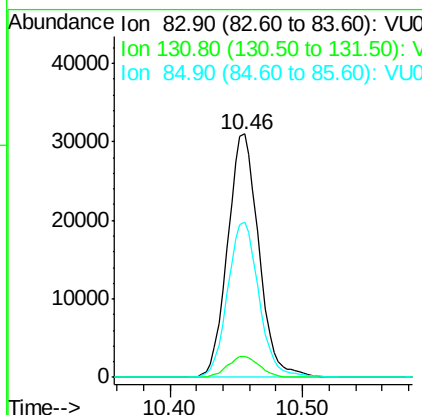
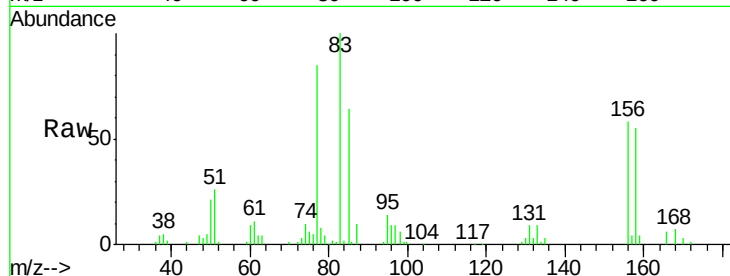
ClientSampleId :

VU0116WBS01

Tot Ion:	83	Resp:	50692
Ion Ratio	Lower	Upper	
83	100		
131	8.6	4.7	14.1
85	63.9	32.0	96.2

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#76

1,2,3-Trichloropropane

Concen: 21.546 ug/l m

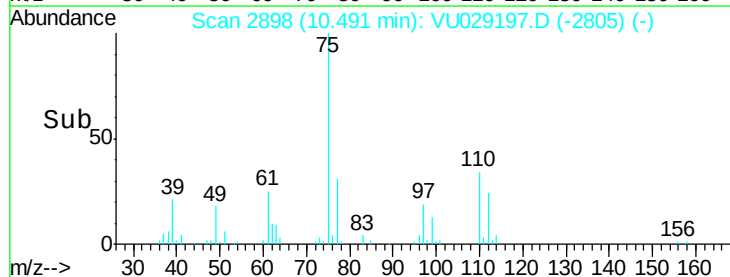
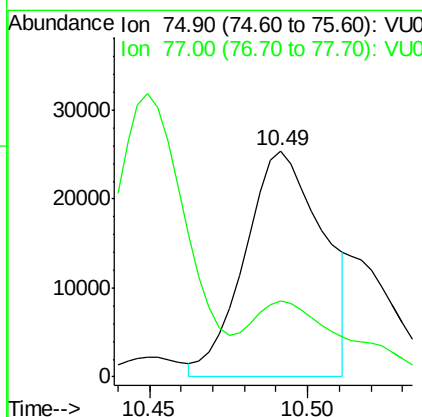
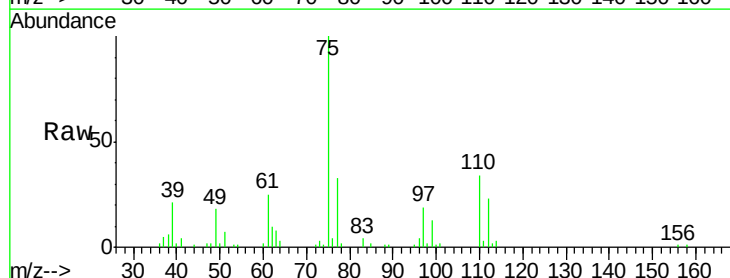
RT: 10.49 min Scan# 2898

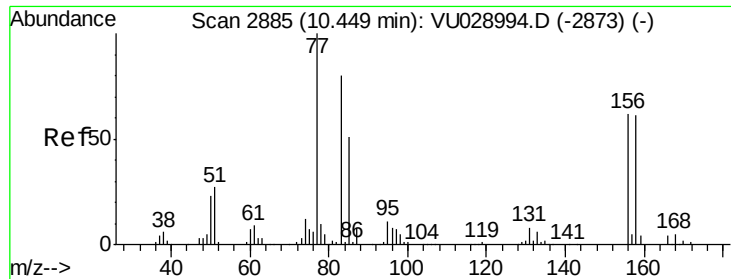
Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion:	75	Resp:	43322
Ion Ratio	Lower	Upper	
75	100		
77	41.1	20.9	62.8





#77

Bromobenzene

Concen: 20.596 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

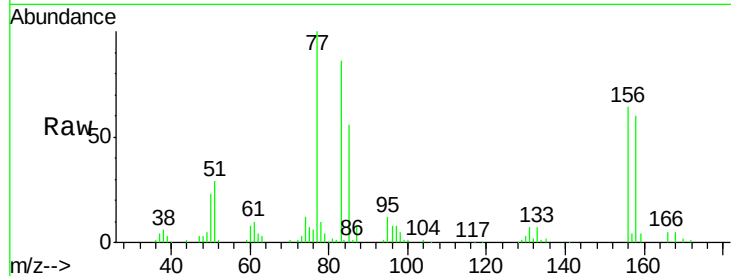
ClientSampleId :

VU0116WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	157.9	79.0	237.2		
158	97.9	48.9	146.6		

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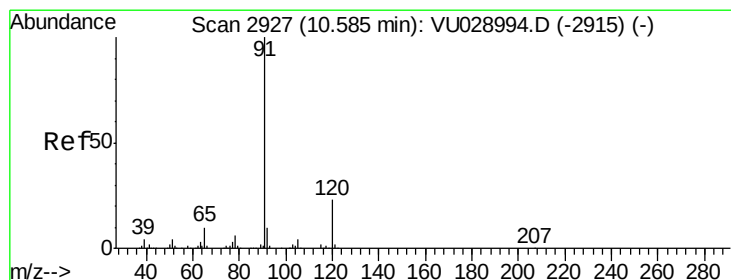
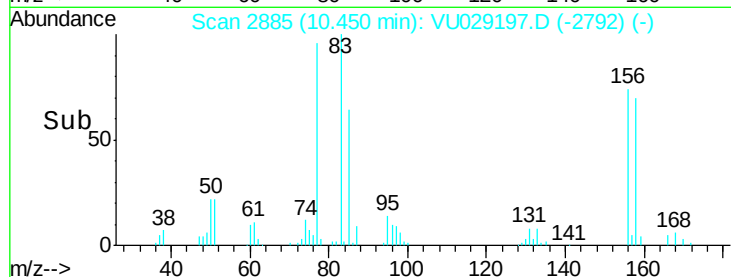
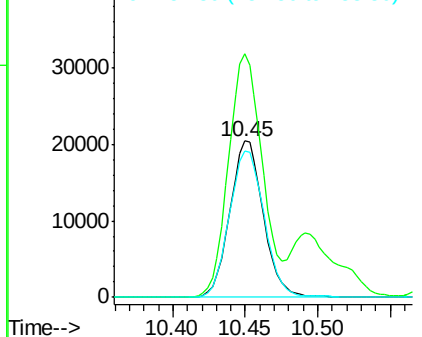
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.927 ug/l

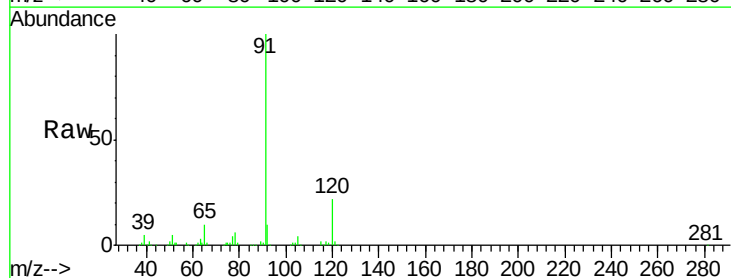
RT: 10.58 min Scan# 2927

Delta R.T. 0.00 min

Lab File: VU029197.D

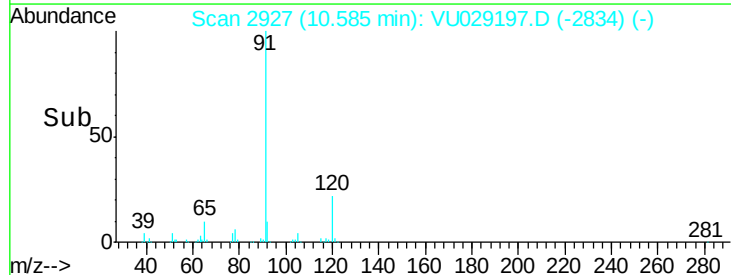
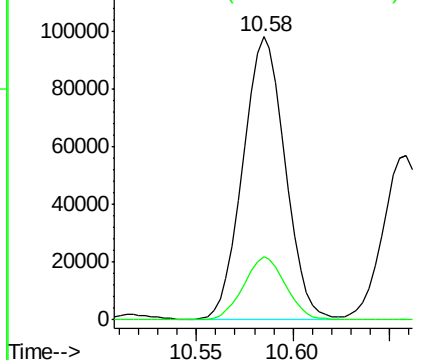
Acq: 16 Jan 2019 10:13

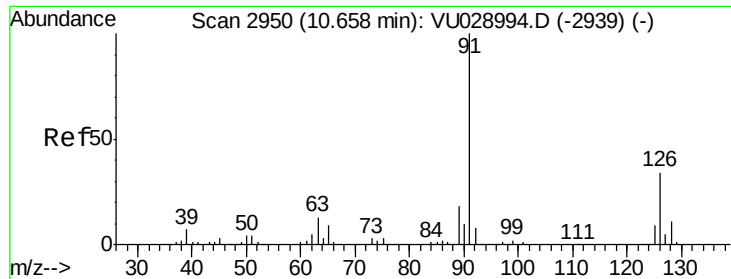
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	22.2	11.3	33.9		



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





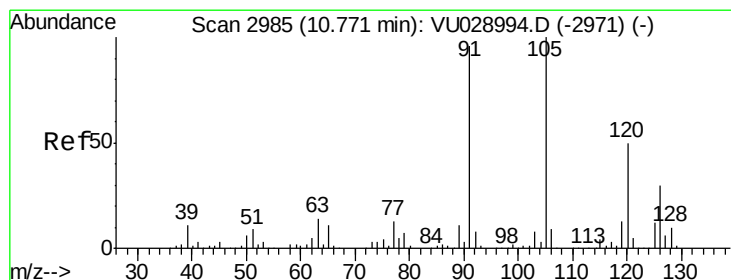
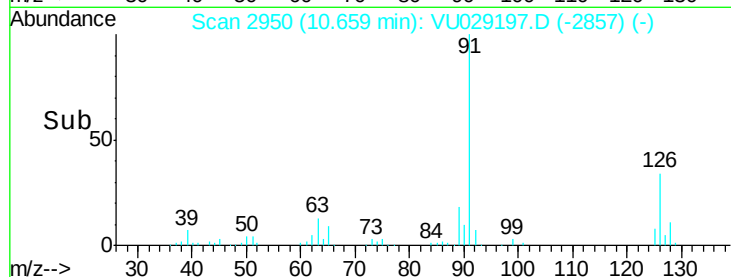
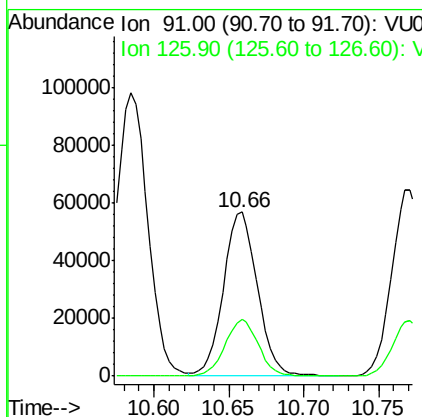
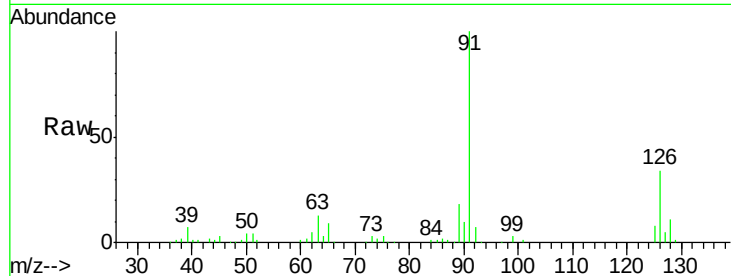
#79
 2-Chlorotoluene
 Concen: 20.806 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampled :
 VU0116WBS01

Tot Ion: 91 Resp: 90343
 Ion Ratio Lower Upper
 91 100
 126 33.9 16.8 50.4

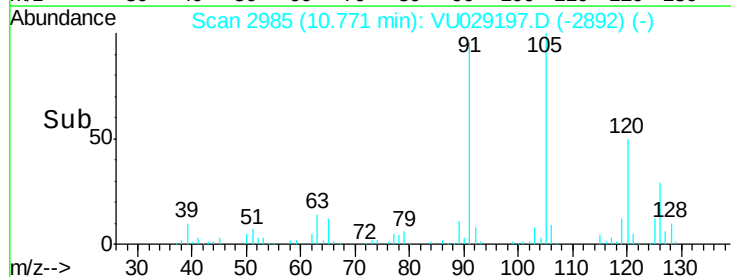
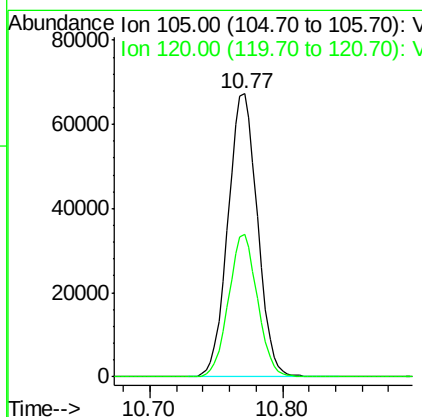
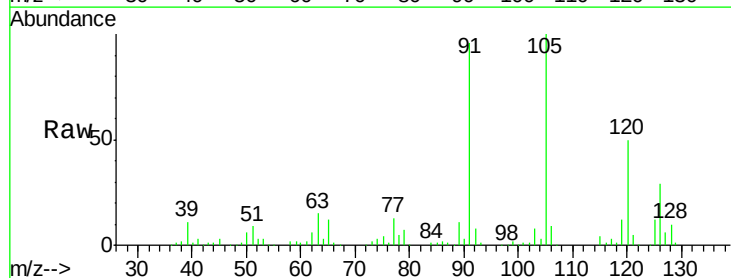
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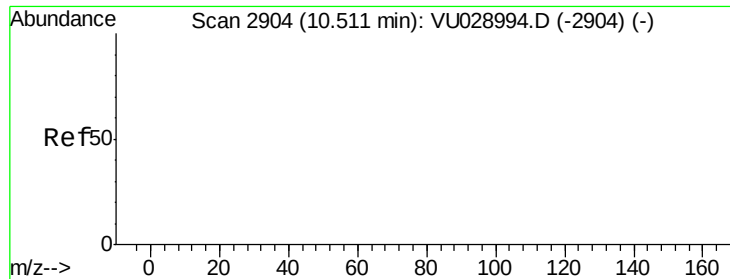
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#80
 1,3,5-Trimethylbenzene
 Concen: 20.527 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion: 105 Resp: 104117
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.8 74.4





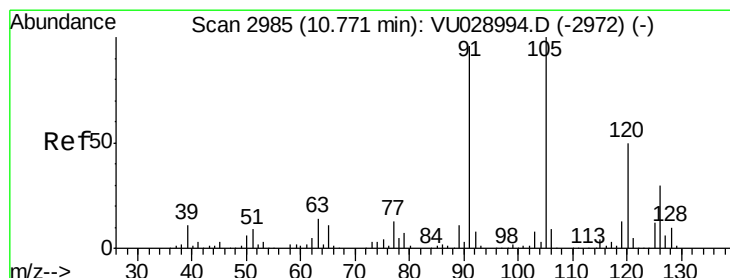
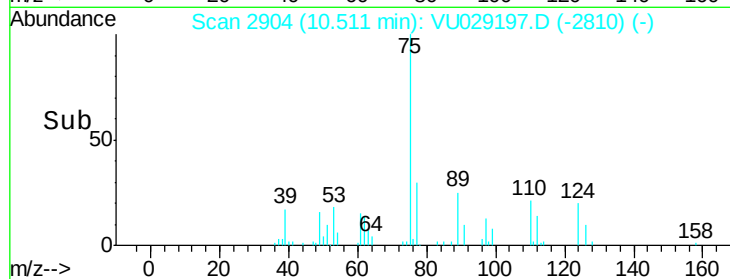
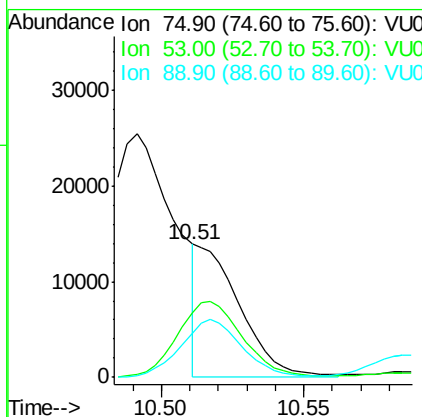
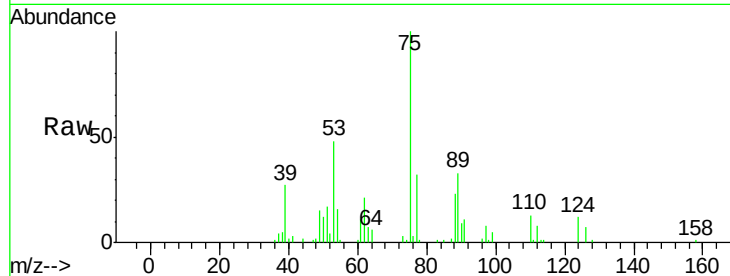
#81
trans-1,4-Dichloro-2-butene
Concen: 18.681 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion: 75 Resp: 14564
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0

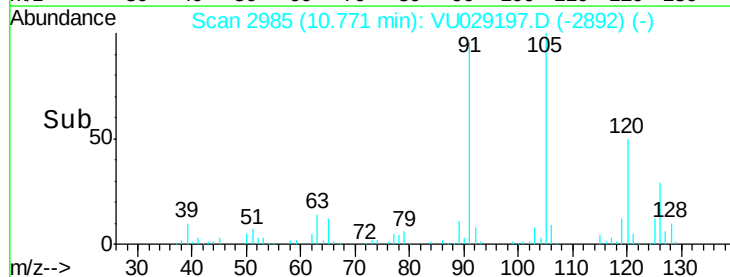
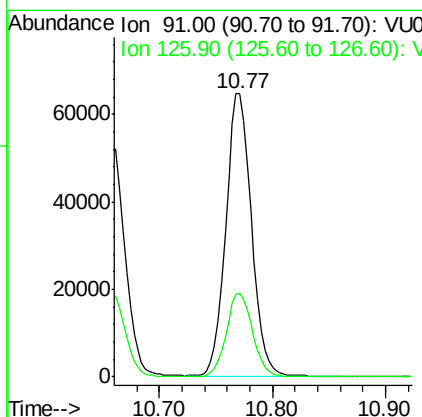
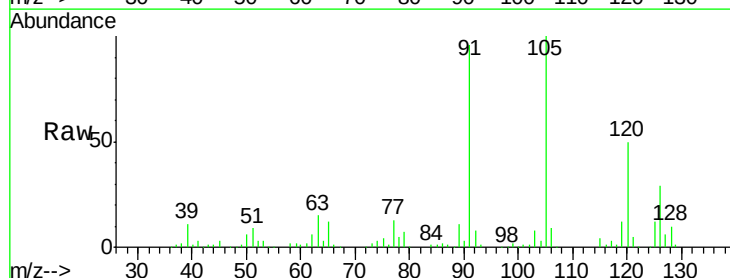
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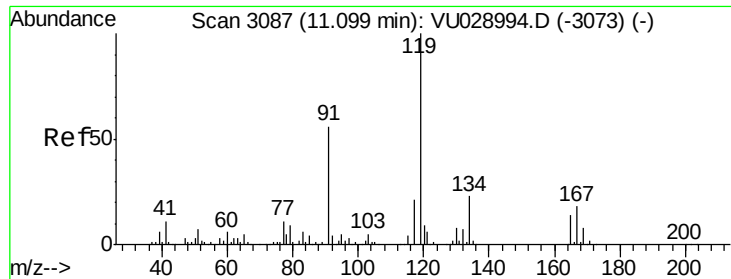
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#82
4-Chlorotoluene
Concen: 20.512 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 91 Resp: 102129
Ion Ratio Lower Upper
91 100
126 30.2 15.5 46.5





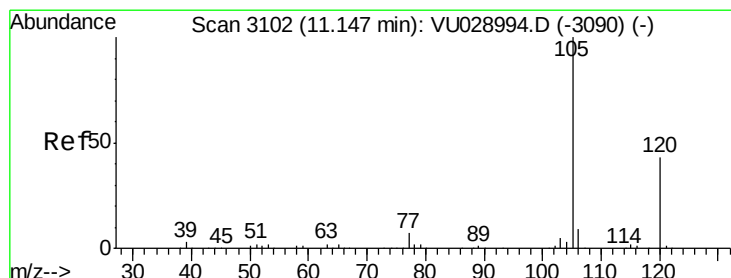
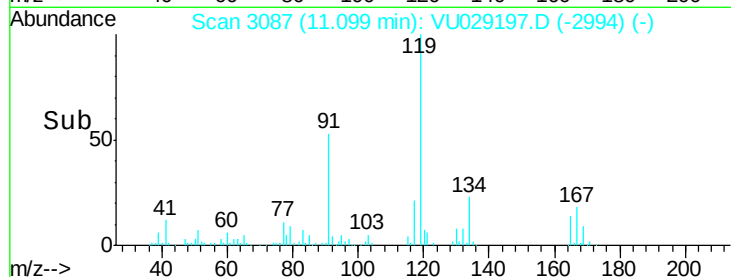
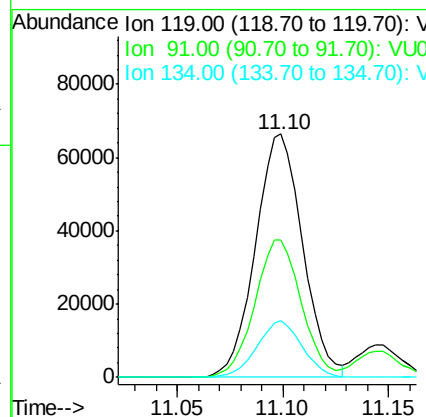
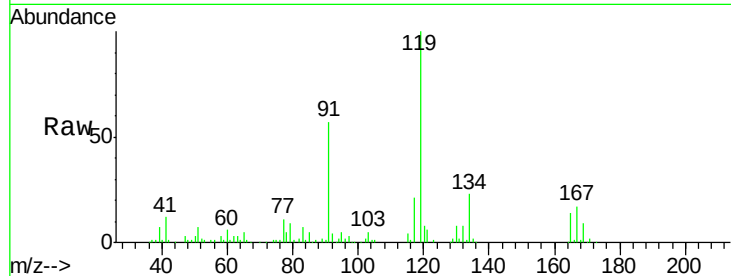
#83
 tert-Butylbenzene
 Concen: 20.669 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	103330		
91	55.6	28.2	84.6	
134	22.2	11.3	33.8	

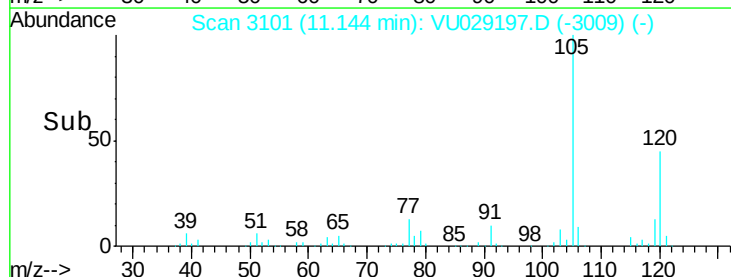
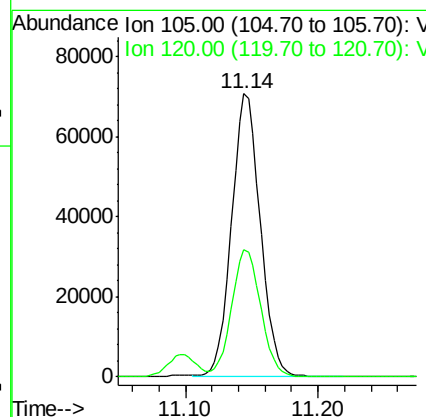
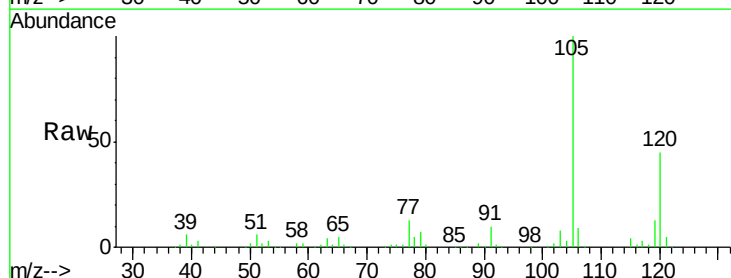
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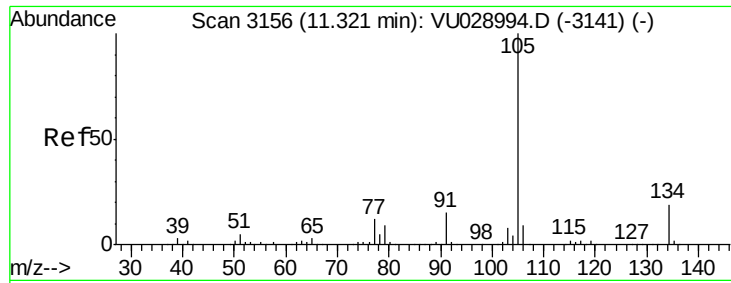
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.900 ug/l
 RT: 11.14 min Scan# 3101
 Delta R.T. -0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	105839		
120	45.8	23.1	69.3	





#85

sec-Butylbenzene

Concen: 21.116 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion:105 Resp: 127670

Ion Ratio Lower Upper

105 100

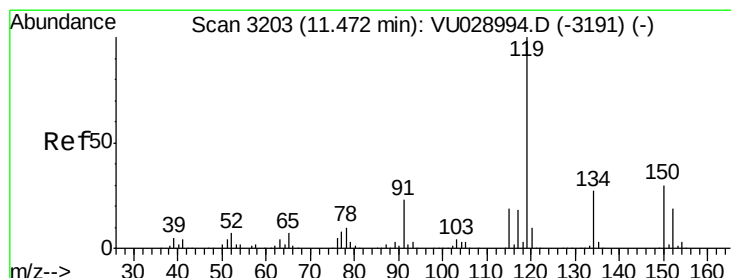
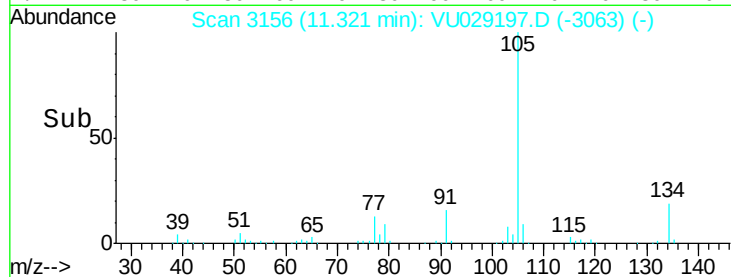
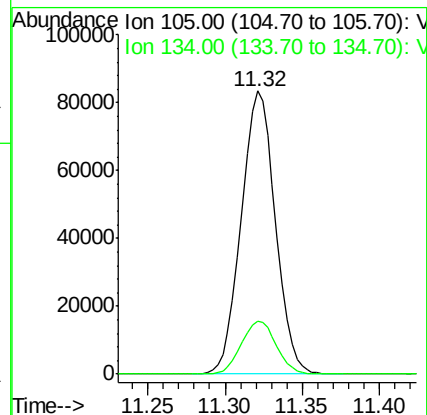
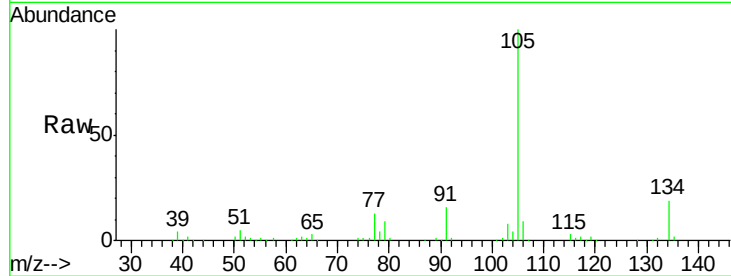
134 19.2 9.7 29.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.051 ug/l

RT: 11.47 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

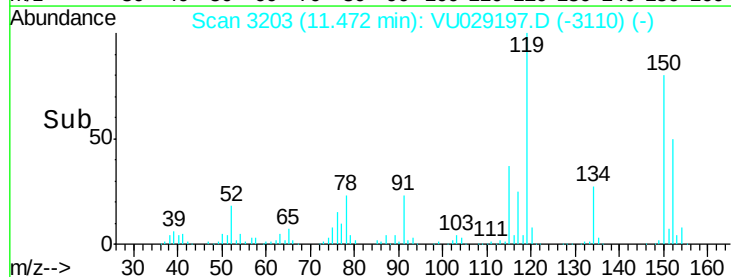
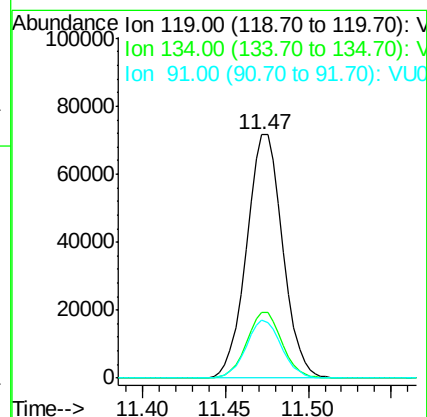
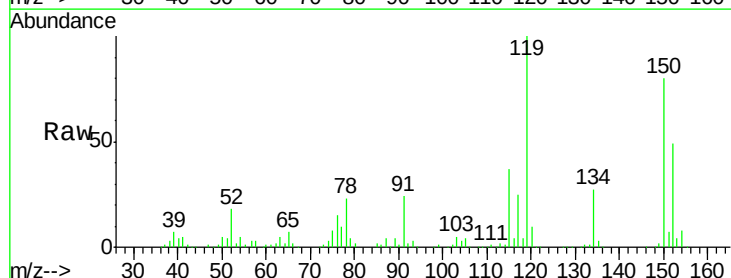
Tgt Ion:119 Resp: 108456

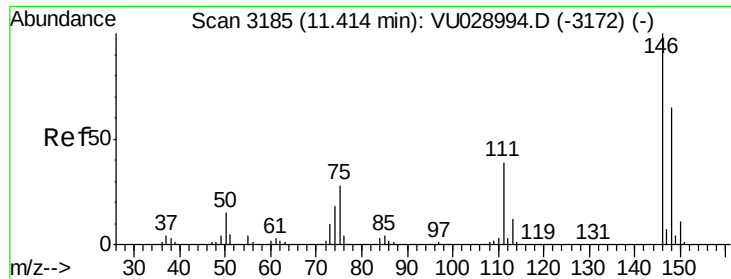
Ion Ratio Lower Upper

119 100

134 26.5 13.5 40.4

91 23.2 11.3 33.8





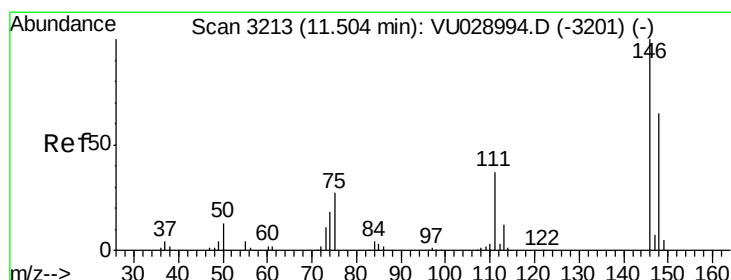
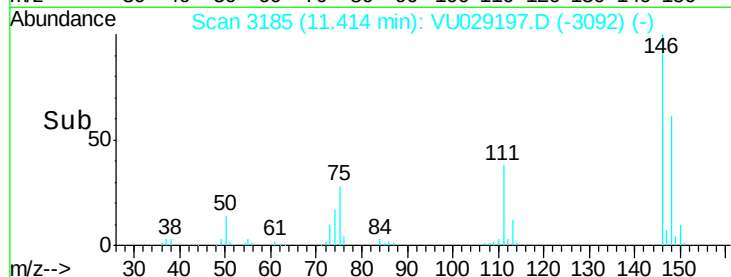
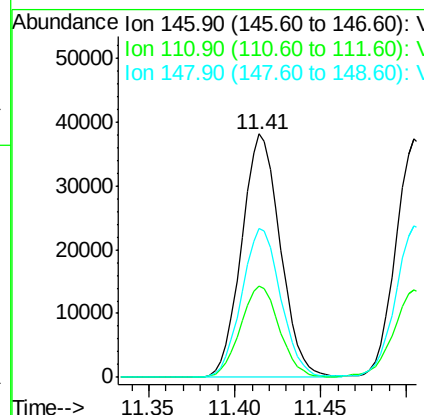
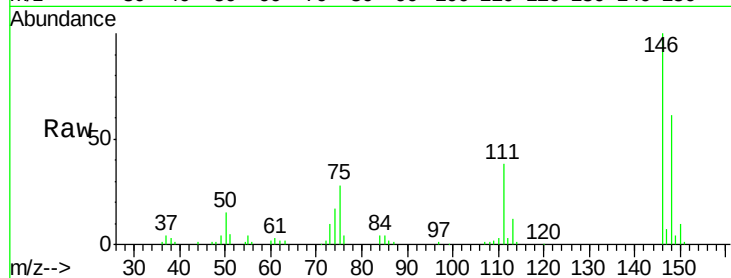
#87
 1,3-Dichlorobenzene
 Concen: 20.498 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.3	57.8
148	61.9	32.5	97.5

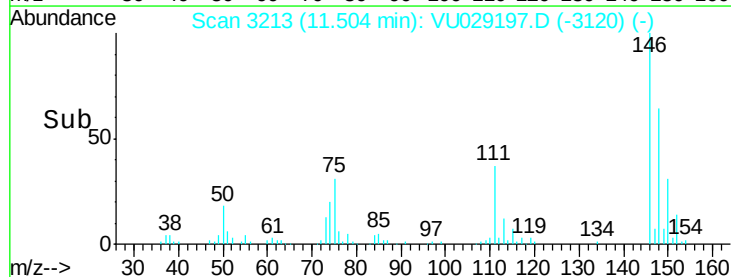
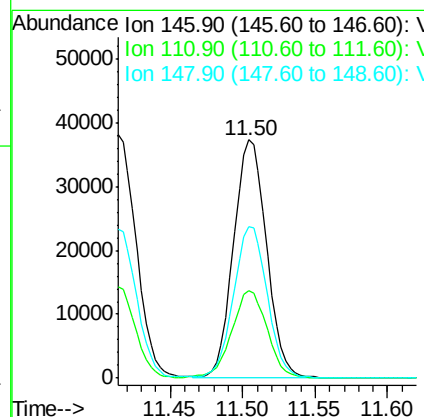
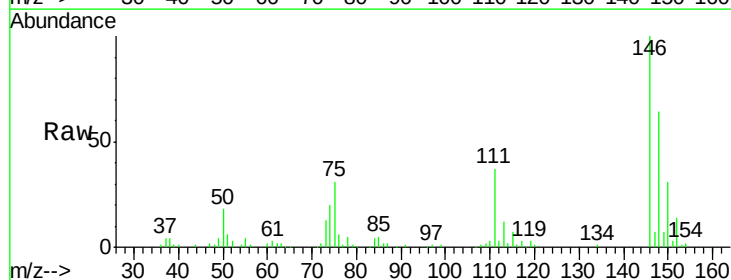
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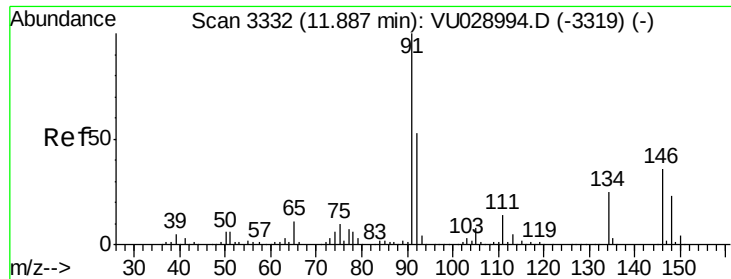
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#88
 1,4-Dichlorobenzene
 Concen: 19.755 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.1	57.3
148	64.9	32.6	98.0





#89

n-Butylbenzene

Concen: 21.958 ug/l

RT: 11.89 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

Tot Ion: 91 Resp: 100974
Ion Ratio Lower Upper

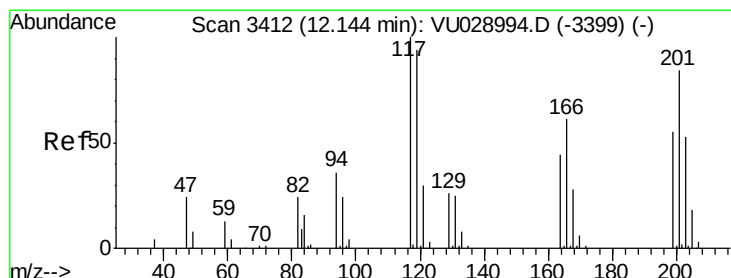
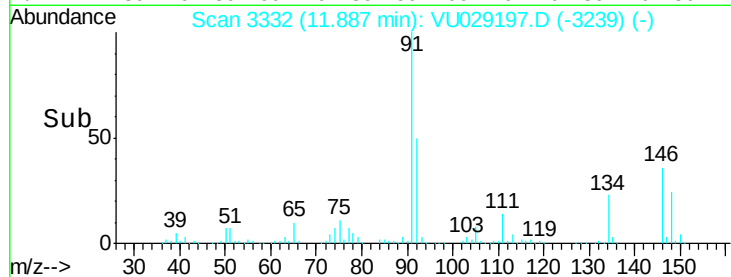
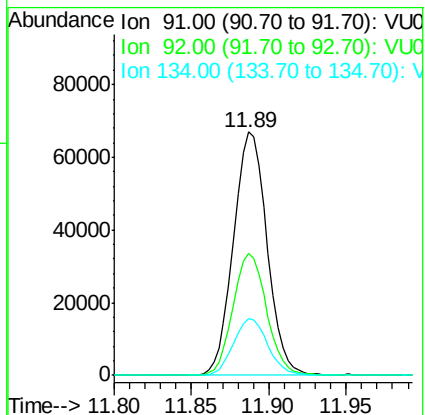
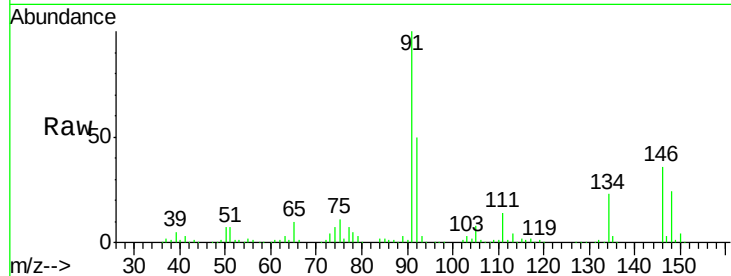
91 100

92 50.1 26.2 78.5

134 23.7 12.6 37.6

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#90

Hexachloroethane

Concen: 21.431 ug/l

RT: 12.14 min Scan# 3412

Delta R.T. 0.00 min

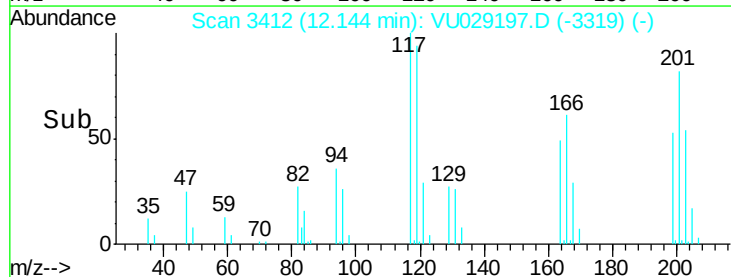
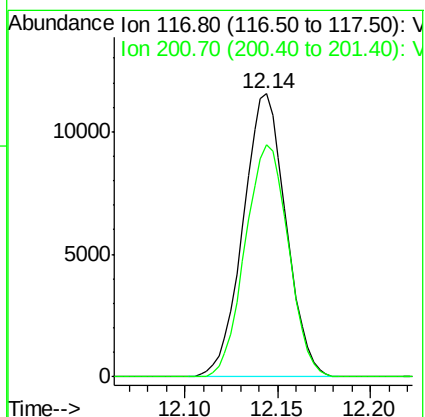
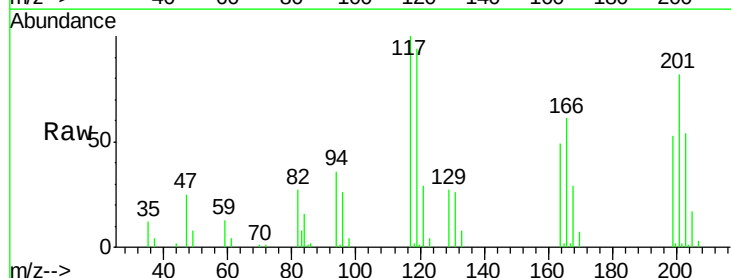
Lab File: VU029197.D

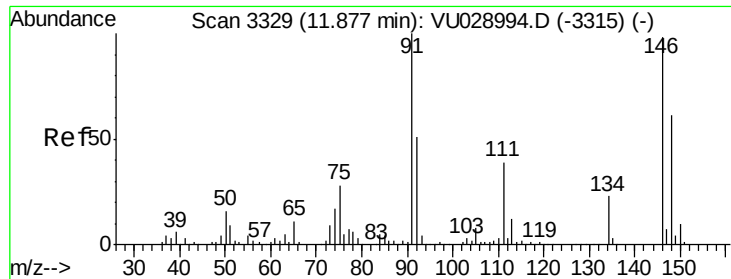
Acq: 16 Jan 2019 10:13

Tgt Ion: 117 Resp: 18575
Ion Ratio Lower Upper

117 100

201 82.6 42.4 127.3





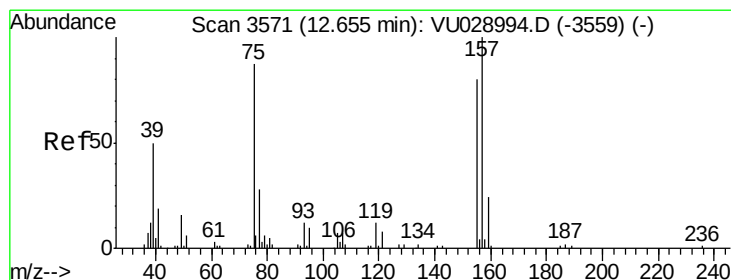
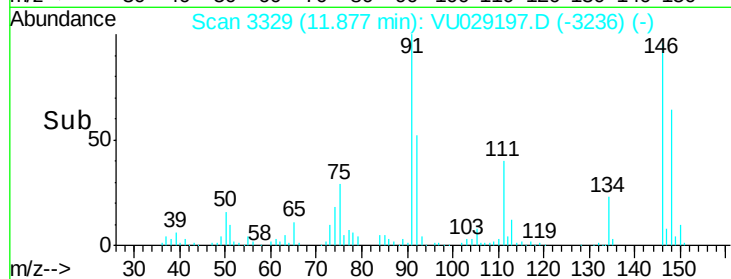
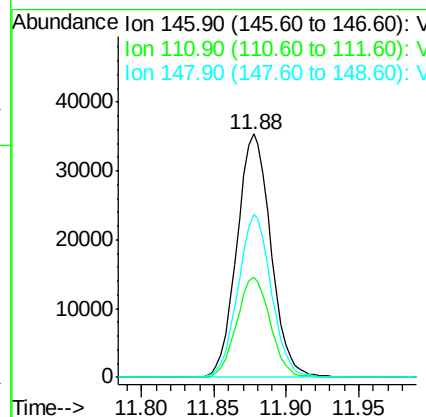
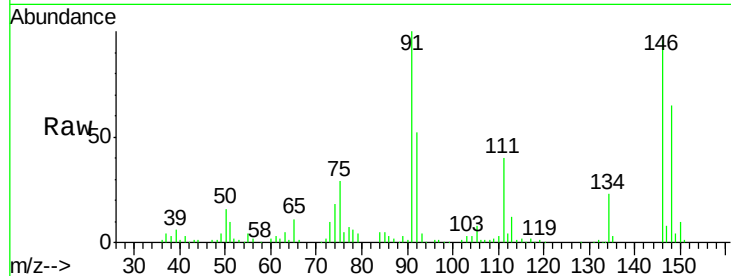
#91
 1,2-Dichlorobenzene
 Concen: 19.704 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.0	59.9
148	65.4	31.6	94.8

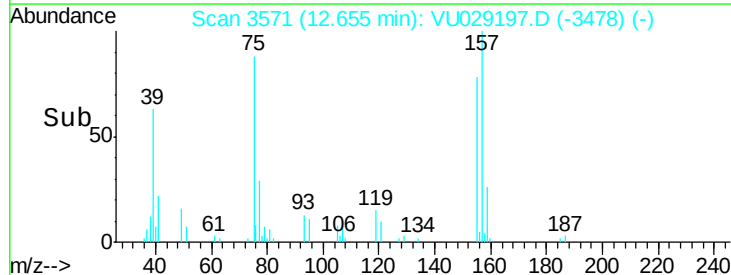
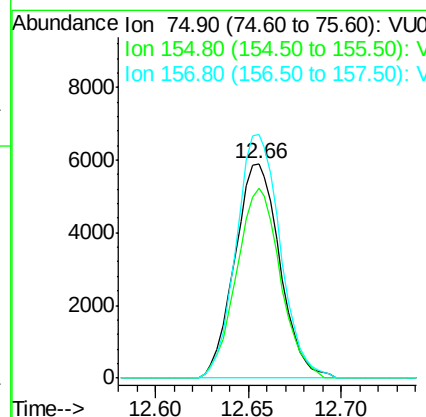
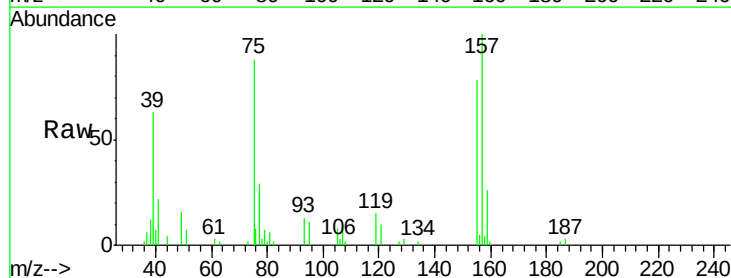
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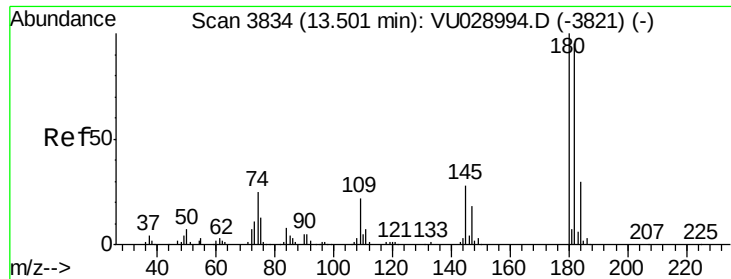
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.200 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.3	46.3	138.8
157	111.3	57.4	172.0





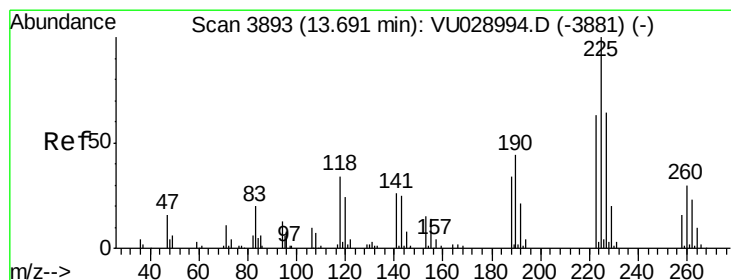
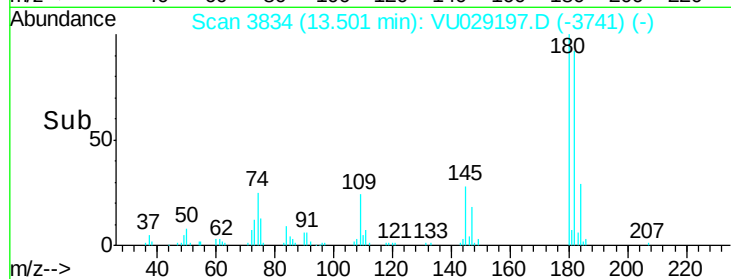
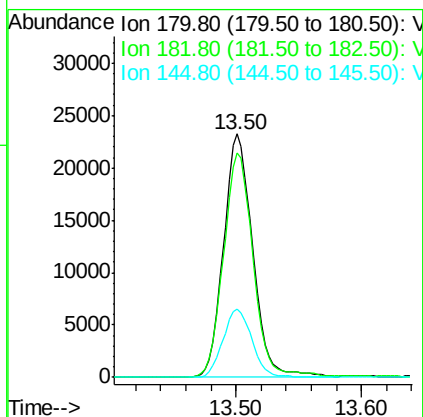
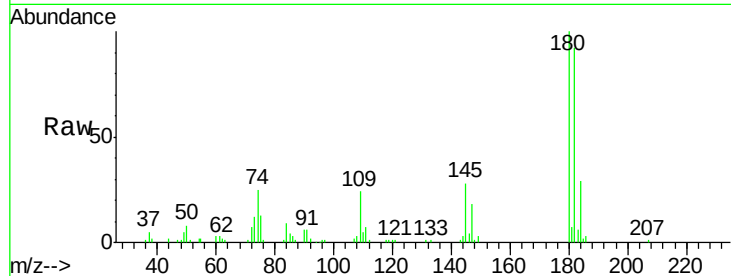
#93
1,2,4-Trichlorobenzene
Concen: 20.094 ug/l
RT: 13.50 min Scan# 3834
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.5	47.5	142.6
145	27.7	14.0	42.0

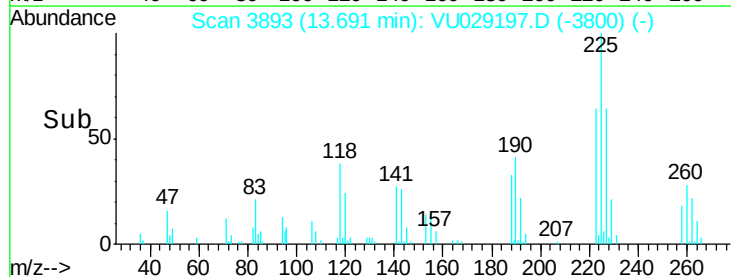
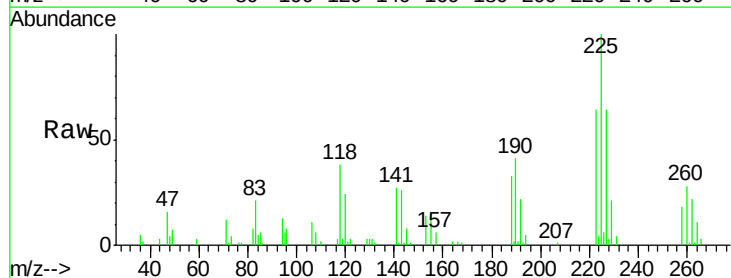
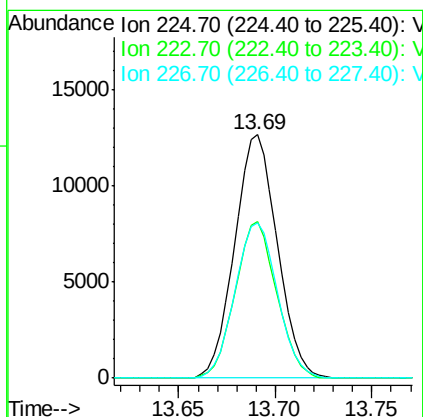
Manual Integrations
APPROVED

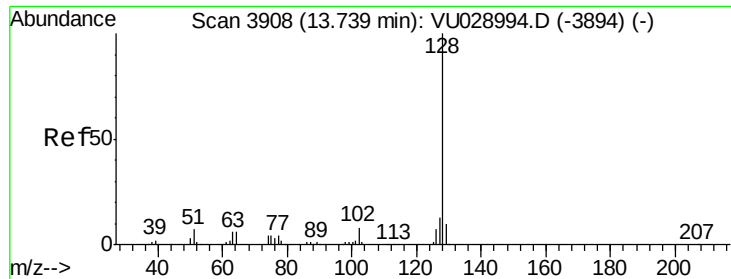
MMDadoda
1/17/2019 9:43:31 AM



#94
Hexachlorobutadiene
Concen: 22.716 ug/l
RT: 13.69 min Scan# 3893
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.4	94.0
227	63.4	31.9	95.5





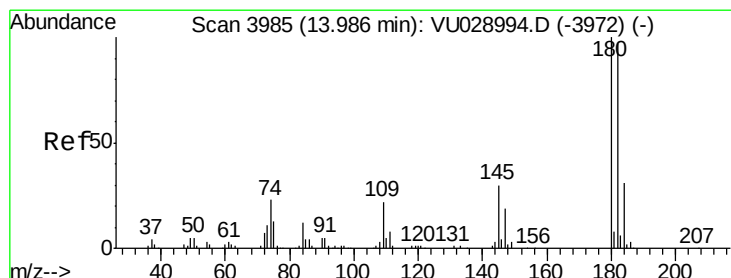
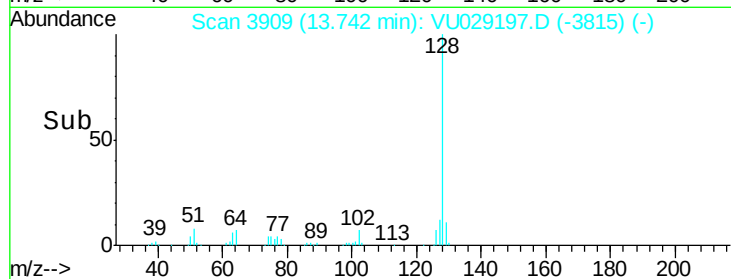
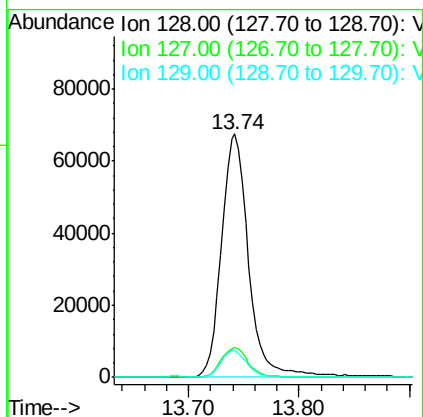
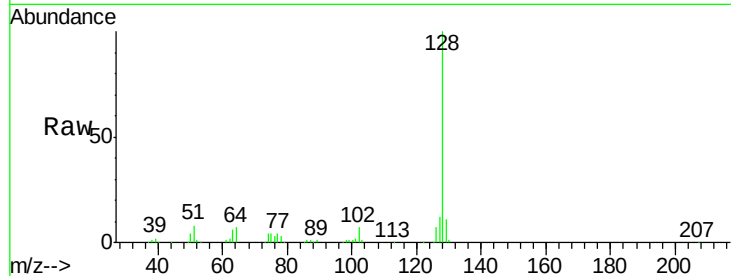
#95
Naphthalene
Concen: 18.103 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.8	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/17/2019 9:43:31 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.522 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.1	144.3
145	30.1	14.8	44.4

