

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011019\
 Data File : VU029115.D
 Acq On : 10 Jan 2019 13:51
 Operator : MD/SY
 Sample : VU0110WBSD01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/11/2019 10:03:43 AM

Quant Time: Jan 11 03:34:40 2019
 Quant Method : Z:\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 02:22:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	143645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	239395	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	221509	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	106355	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.30	65	91515	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
35) Dibromofluoromethane	4.88	113	78498	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
50) Toluene-d8	7.56	98	309857	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
62) 4-Bromofluorobenzene	10.30	95	107364	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	27336	19.189	ug/l	100
3) Chloromethane	1.33	50	41593	17.844	ug/l	99
4) Vinyl Chloride	1.40	62	41215	19.633	ug/l	98
5) Bromomethane	1.62	94	24189	20.627	ug/l	97
6) Chloroethane	1.69	64	24449	19.552	ug/l	98
7) Trichlorofluoromethane	1.88	101	47550	20.787	ug/l	97
8) Diethyl Ether	2.10	74	22204	20.204	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.28	101	29851	19.503	ug/l	98
10) Methyl Iodide	2.41	142	31721	22.041	ug/l	99
11) Tert butyl alcohol	2.83	59	50462	111.799	ug/l	100
12) 1,1-Dichloroethene	2.28	96	30744	20.636	ug/l	99
13) Acrolein	2.19	56	30799	90.872	ug/l	100
14) Allyl chloride	2.59	41	49073	17.952	ug/l	89
15) Acrylonitrile	2.93	53	119975	108.344	ug/l	100
16) Acetone	2.32	43	95946	85.770	ug/l	98
17) Carbon Disulfide	2.48	76	91242	18.140	ug/l	100
18) Methyl Acetate	2.62	43	57462	22.092	ug/l	98
19) Methyl tert-butyl Ether	3.00	73	108156	20.649	ug/l	98
20) Methylene Chloride	2.70	84	38193	20.109	ug/l	95
21) trans-1,2-Dichloroethene	2.98	96	32640	18.857	ug/l	98
22) Diisopropyl ether	3.57	45	110605	20.473	ug/l	95
23) Vinyl Acetate	3.52	43	450622	102.030	ug/l	99
24) 1,1-Dichloroethane	3.44	63	64432	20.660	ug/l	99
25) 2-Butanone	4.26	43	154932	102.543	ug/l	97
26) 2,2-Dichloropropane	4.22	77	49610	19.687	ug/l	99
27) cis-1,2-Dichloroethene	4.22	96	38916	20.557	ug/l	98
28) Bromochloromethane	4.55	49	28097	21.040	ug/l	98
29) Tetrahydrofuran	4.64	42	99767	108.871	ug/l	99
30) Chloroform	4.67	83	61526	20.712	ug/l	96
31) Cyclohexane	4.99	56	59011	19.356	ug/l	94
32) 1,1,1-Trichloroethane	4.91	97	51117	20.826	ug/l	98
36) 1,1-Dichloropropene	5.13	75	46107	19.269	ug/l	99
37) Ethyl Acetate	4.38	43	54103	20.599	ug/l	99
38) Carbon Tetrachloride	5.13	117	40732	20.409	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	57293	19.476	ug/l	99
40) Benzene	5.39	78	149897	20.083	ug/l	99
41) Methacrylonitrile	4.54	41	29330	20.861	ug/l	99
42) 1,2-Dichloroethane	5.40	62	46445	20.708	ug/l	99
43) Isopropyl Acetate	5.55	43	85103	21.122	ug/l	100
44) Trichloroethene	6.19	130	35735	19.323	ug/l	96
45) 1,2-Dichloropropane	6.43	63	40003	20.295	ug/l	99
46) Dibromomethane	6.56	93	25236	20.028	ug/l	99
47) Bromodichloromethane	6.76	83	46655	20.110	ug/l	100
48) Methyl methacrylate	6.62	41	40812	20.802	ug/l	97
49) 1,4-Dioxane	6.61	88	20467	440.212	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	288256	105.124	ug/l	100
52) Toluene	7.64	92	90051	19.818	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	54317	19.490	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	59425	19.734	ug/l	99
55) 1,1,2-Trichloroethane	8.06	97	38609	21.210	ug/l	99
56) Ethyl methacrylate	8.02	69	56707	20.220	ug/l	99
57) 1,3-Dichloropropane	8.24	76	64058	20.566	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.12	63	127144	103.089	ug/l	98
59) 2-Hexanone	8.36	43	220028	102.224	ug/l	100
60) Dibromochloromethane	8.48	129	35165	19.499	ug/l	98
61) 1,2-Dibromoethane	8.58	107	39967	20.244	ug/l	99
64) Tetrachloroethene	8.22	164	31458	19.715	ug/l	98
65) Chlorobenzene	9.12	112	97387	19.614	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	33211	20.611	ug/l	98
67) Ethyl Benzene	9.25	91	167612	20.219	ug/l	99
68) m/p-Xylenes	9.37	106	129997	40.360	ug/l	98
69) o-Xylene	9.78	106	64109	20.657	ug/l	98
70) Styrene	9.79	104	100893	19.831	ug/l	99
71) Bromoform	9.96	173	27948	19.480	ug/l #	99
73) Isopropylbenzene	10.16	105	163467	20.765	ug/l	100
74) N-amyl acetate	10.01	43	70359	20.741	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	64456	20.430	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	55789m	21.409	ug/l	
77) Bromobenzene	10.45	156	41307	20.135	ug/l	100
78) n-propylbenzene	10.58	91	192688	20.770	ug/l	100
79) 2-Chlorotoluene	10.66	91	116675	20.732	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	137000	20.840	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	18961m	18.766	ug/l	
82) 4-Chlorotoluene	10.77	91	129024	19.994	ug/l	99
83) tert-Butylbenzene	11.10	119	132667	20.475	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	141137	21.504	ug/l	99
85) sec-Butylbenzene	11.32	105	163541	20.870	ug/l	100
86) p-Isopropyltoluene	11.48	119	137655	20.615	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	74253	19.733	ug/l	98
88) 1,4-Dichlorobenzene	11.50	146	73644	18.960	ug/l	99
89) n-Butylbenzene	11.89	91	124807	20.942	ug/l	100
90) Hexachloroethane	12.14	117	21755	19.367	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	74493	19.655	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	12962	21.360	ug/l	97

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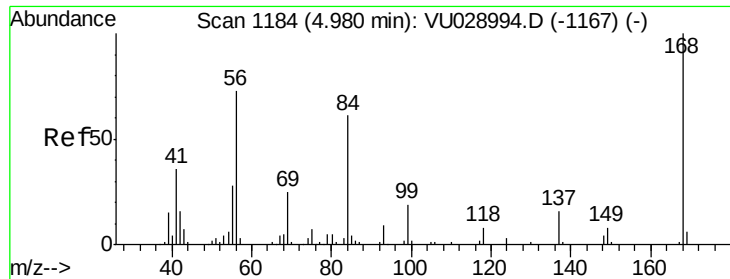
Manual Integrations
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	48328	19.975	ug/l	98
94) Hexachlorobutadiene	13.69	225	23646	21.368	ug/l	100
95) Naphthalene	13.74	128	163830	19.906	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	49607	20.384	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion:168 Resp: 143645

Ion Ratio Lower Upper

168 100

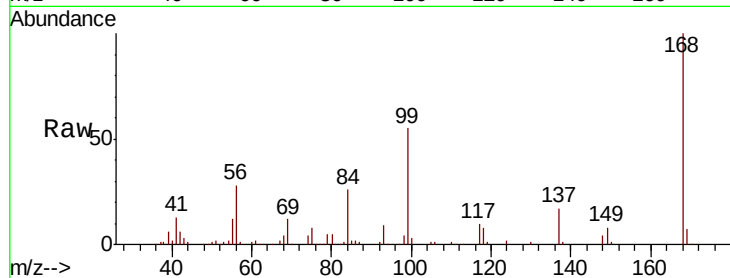
99 54.3 42.0 63.0

Manual Integrations

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

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

4.98

60000

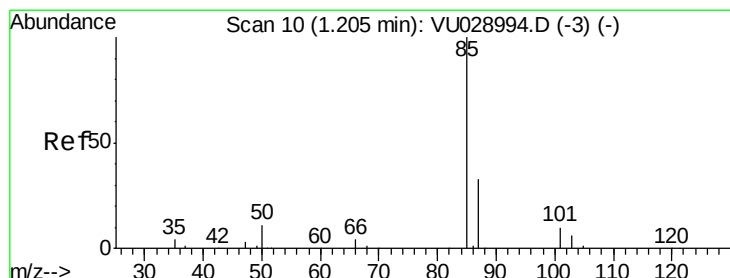
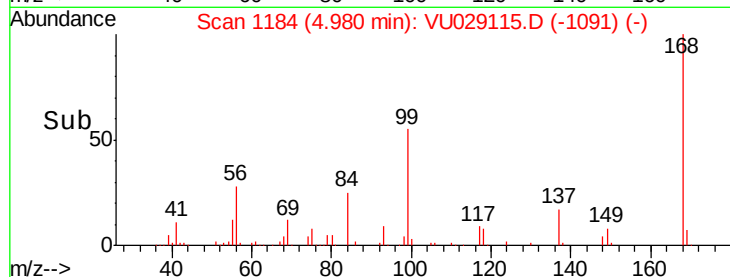
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.189 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU029115.D

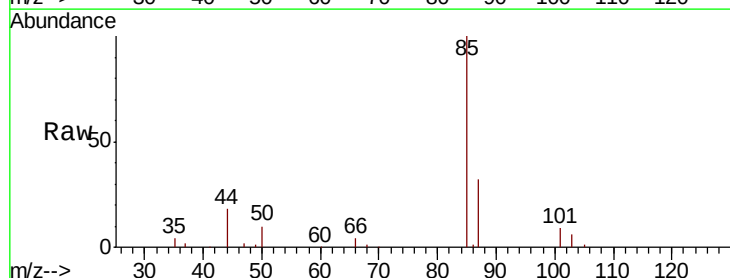
Acq: 10 Jan 2019 13:51

Tgt Ion: 85 Resp: 27336

Ion Ratio Lower Upper

85 100

87 32.3 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

30000

25000

20000

15000

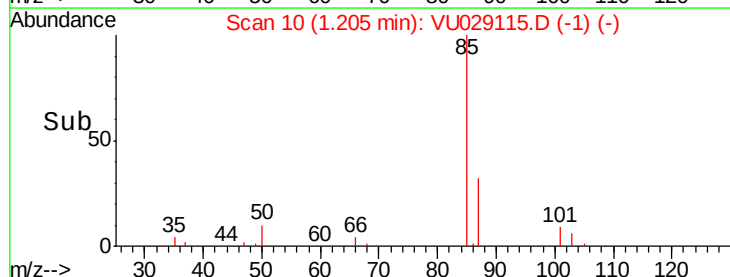
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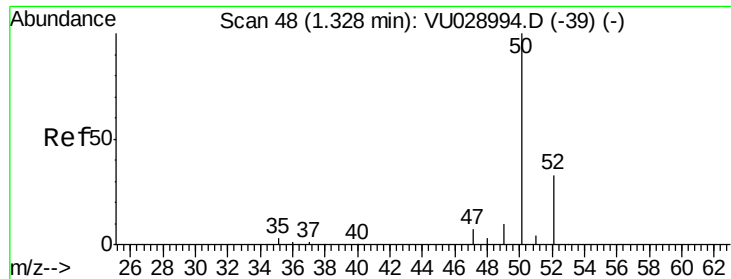
5000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 17.844 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion: 50 Resp: 41593

Ion Ratio Lower Upper

50 100

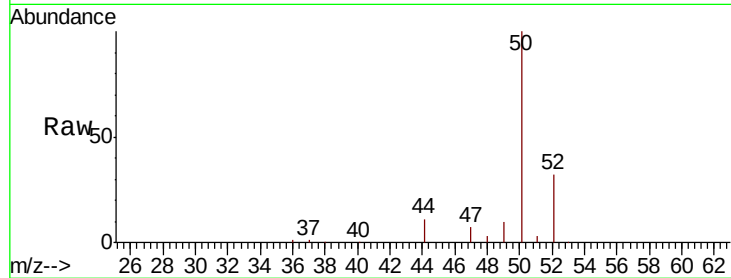
52 32.2 26.1 39.1

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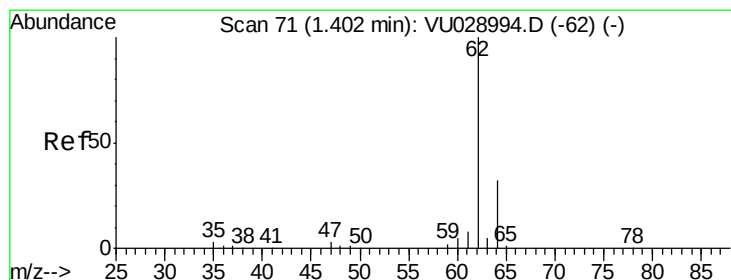
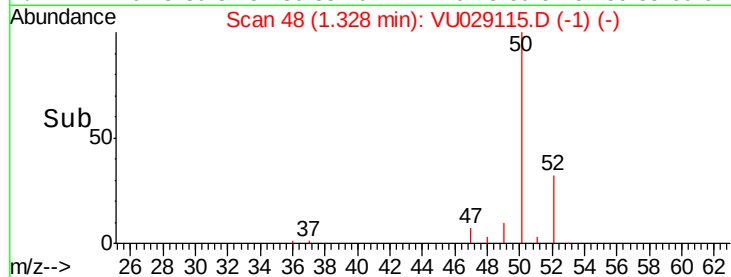
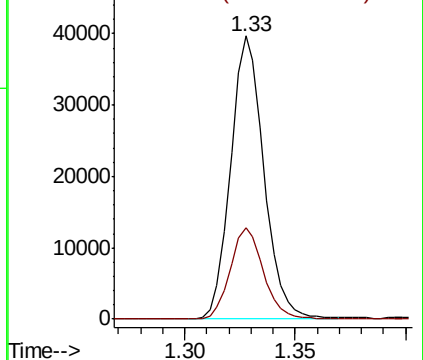
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 19.633 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU029115.D

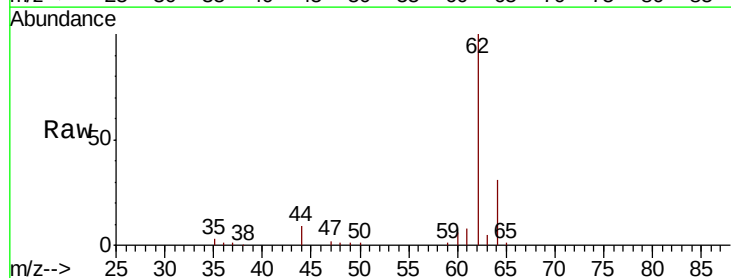
Acq: 10 Jan 2019 13:51

Tgt Ion: 62 Resp: 41215

Ion Ratio Lower Upper

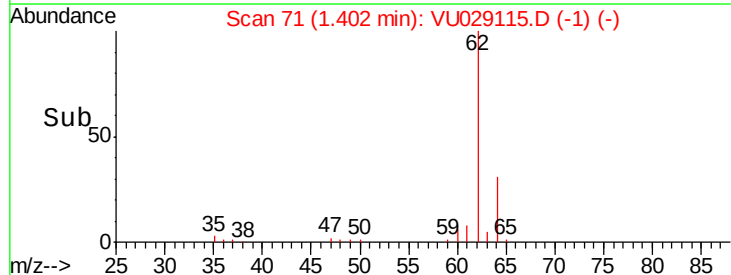
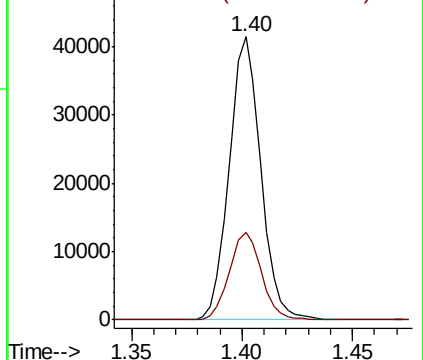
62 100

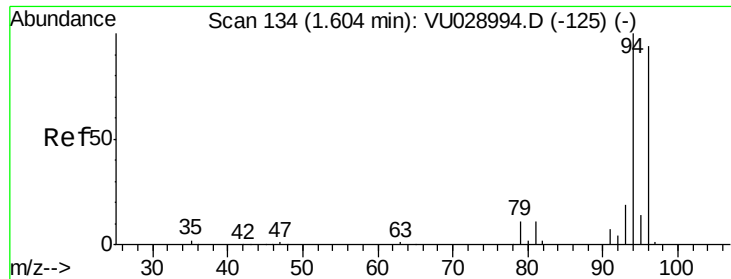
64 31.1 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





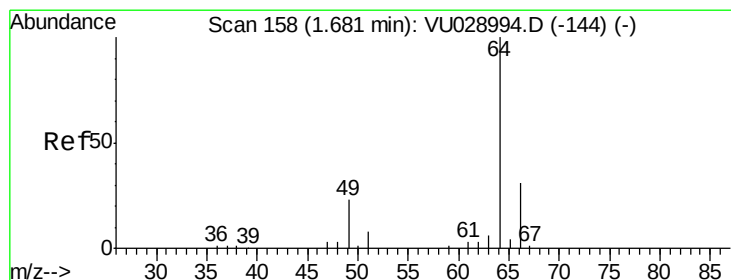
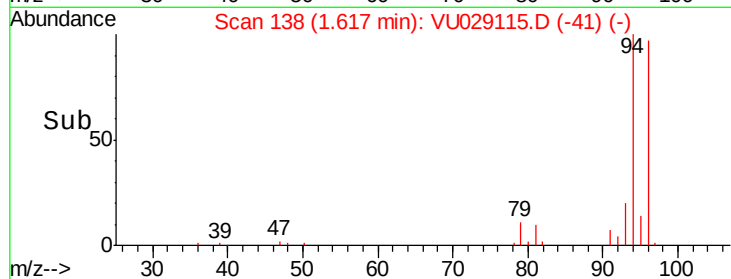
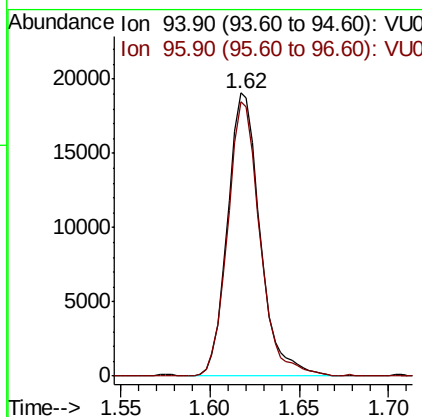
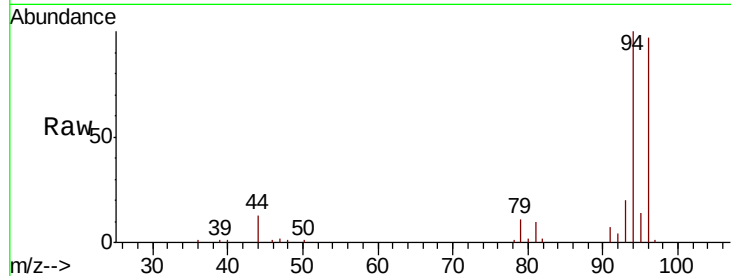
#5
 Bromomethane
 Concen: 20.627 ug/l
 RT: 1.62 min Scan# 138
 Delta R.T. 0.01 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

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 MSVOA_U
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 VU0110WBSD01

Tgt Ion: 94 Resp: 24189
 Ion Ratio Lower Upper
 94 100
 96 97.1 75.5 113.3

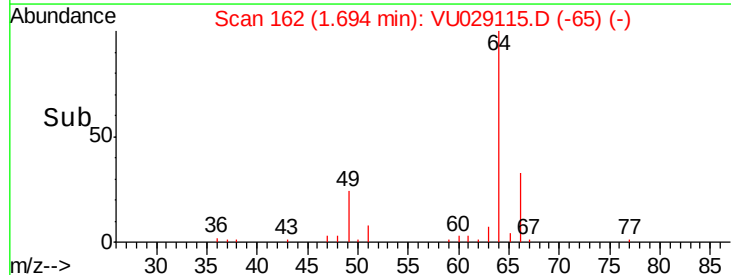
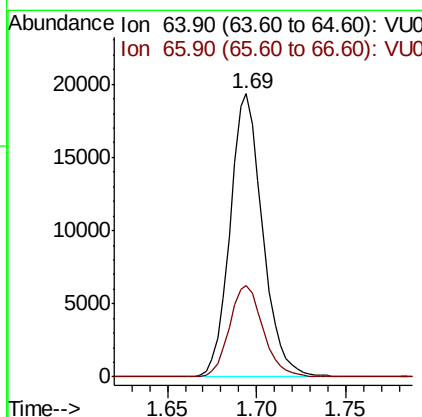
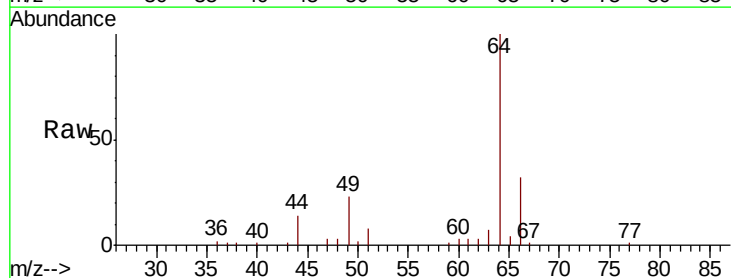
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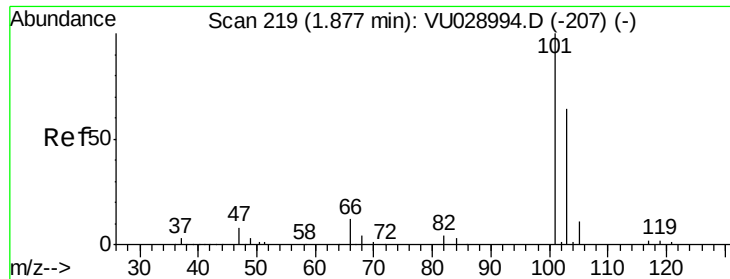
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#6
 Chloroethane
 Concen: 19.552 ug/l
 RT: 1.69 min Scan# 162
 Delta R.T. 0.01 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion: 64 Resp: 24449
 Ion Ratio Lower Upper
 64 100
 66 32.5 25.2 37.8





#7

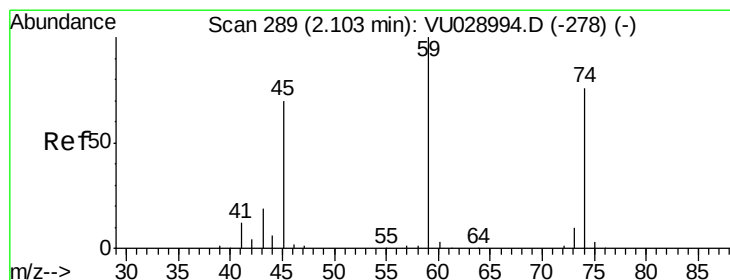
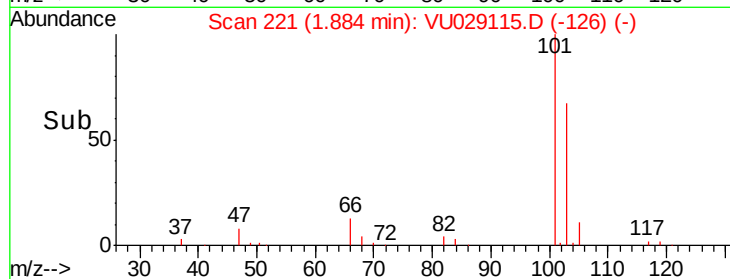
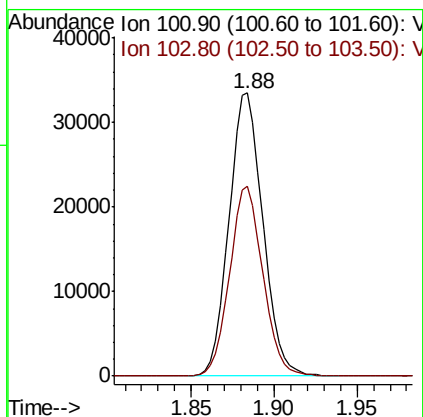
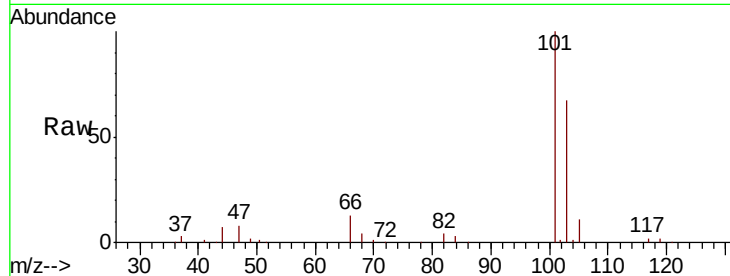
Trichlorofluoromethane
Concen: 20.787 ug/l
RT: 1.88 min Scan# 221
Delta R.T. 0.01 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion: 101 Resp: 47550
Ion Ratio Lower Upper
101 100
103 66.9 51.5 77.3

Manual Integrations
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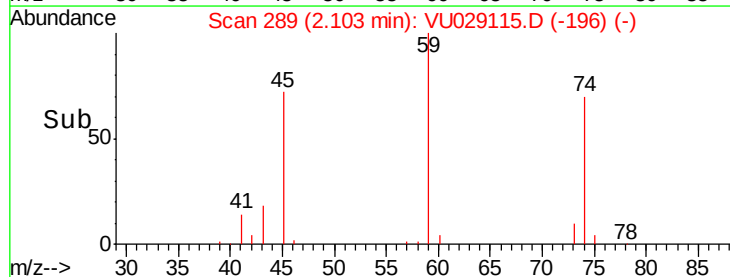
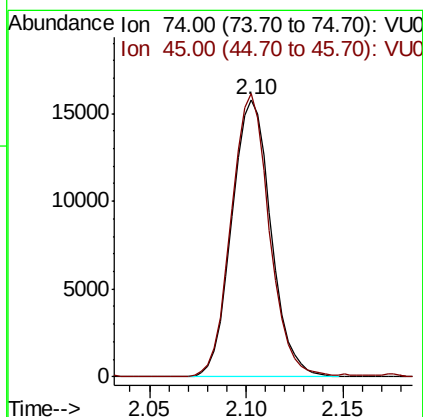
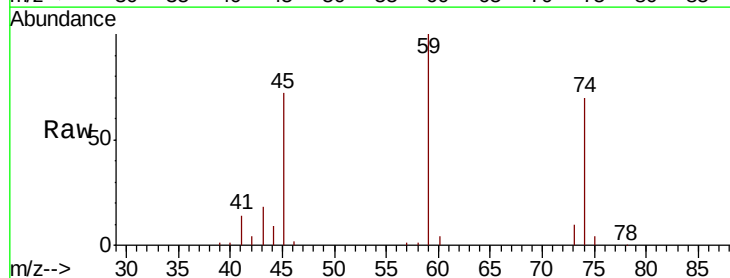
MMDadoda
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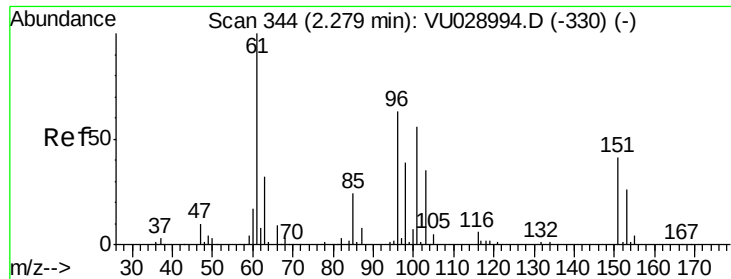


#8

Diethyl Ether
Concen: 20.204 ug/l
RT: 2.10 min Scan# 289
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion: 74 Resp: 22204
Ion Ratio Lower Upper
74 100
45 99.7 46.9 140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.503 ug/l

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU029115.D

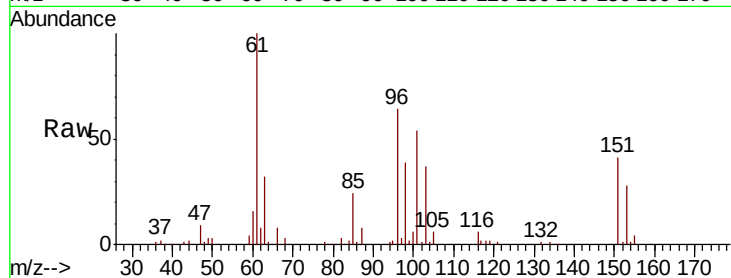
Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

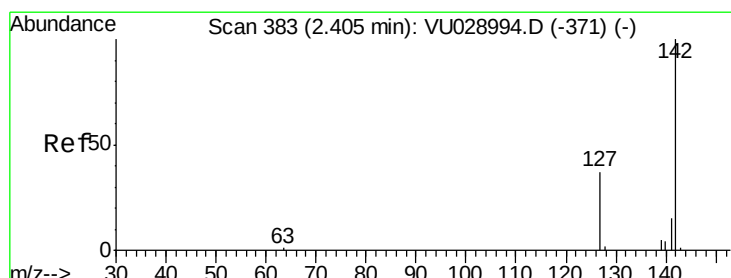
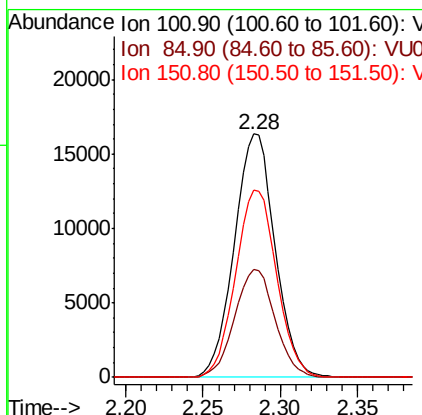
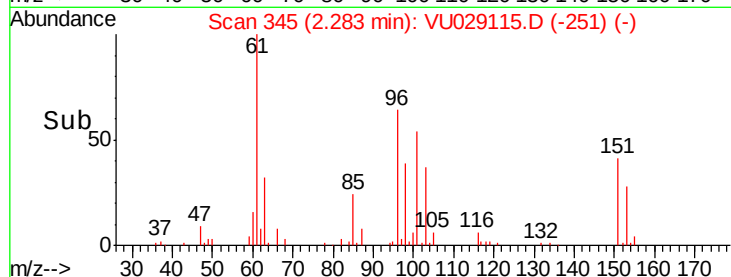
VU0110WBSD01



Tgt Ion	Ratio	Resp	Lower	Upper
101	100	29851		
85	44.0	35.1	52.7	
151	77.5	60.2	90.2	

Manual Integrations
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1/11/2019 10:03:43 AM



#10

Methyl Iodide

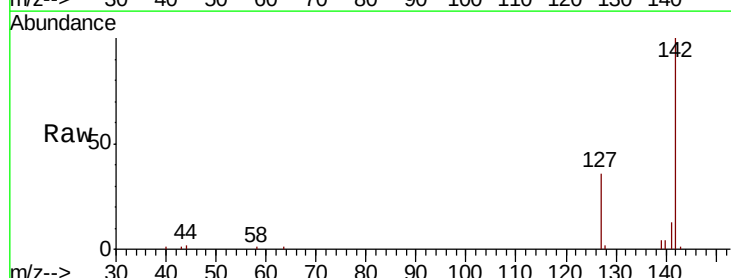
Concen: 22.041 ug/l

RT: 2.41 min Scan# 384

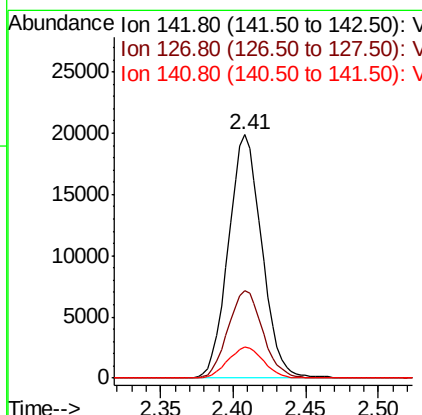
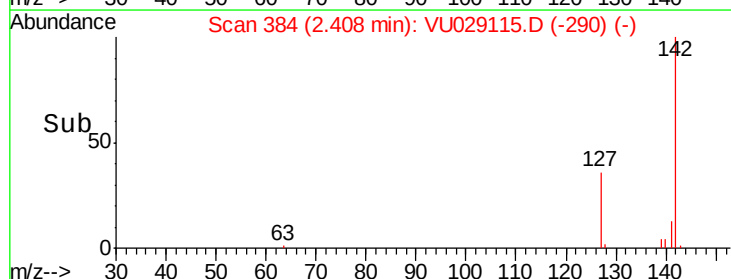
Delta R.T. 0.00 min

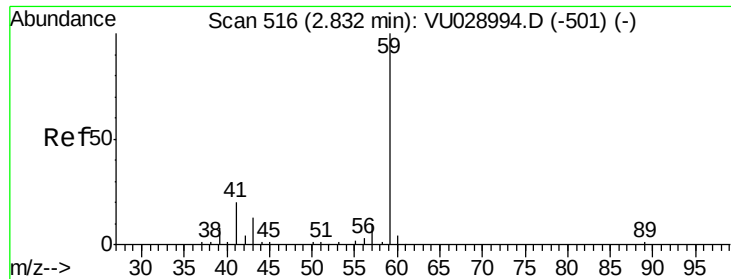
Lab File: VU029115.D

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Tgt Ion	Ratio	Resp	Lower	Upper
142	100	31721		
127	37.1	29.8	44.6	
141	13.5	11.5	17.3	





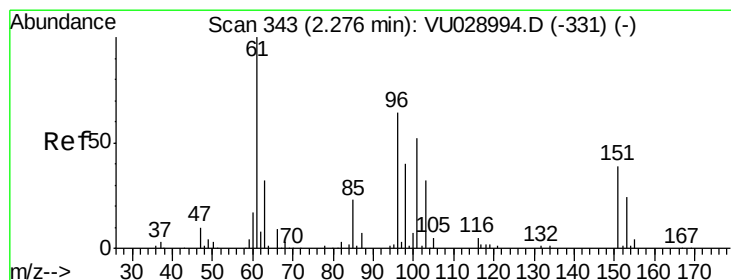
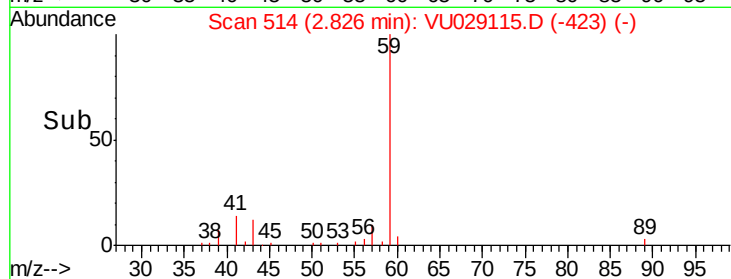
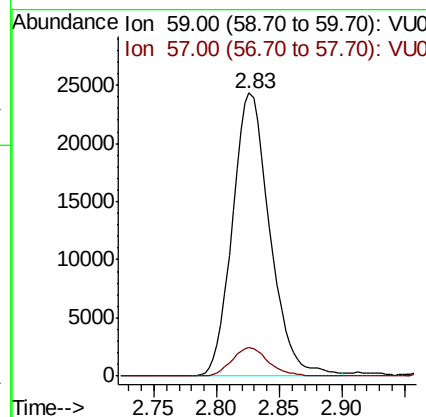
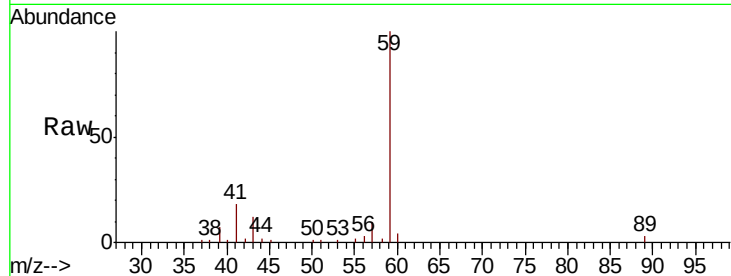
#11
Tert butyl alcohol
Concen: 111.799 ug/l
RT: 2.83 min Scan# 514
Delta R.T. -0.01 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.9	11.9

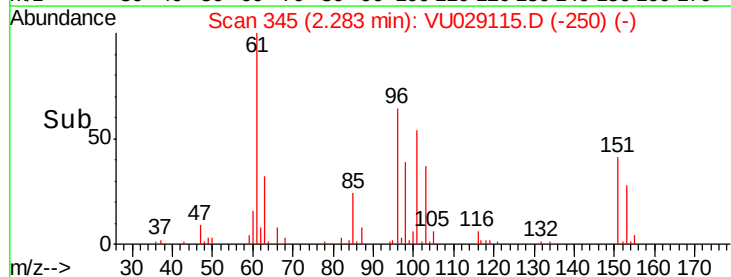
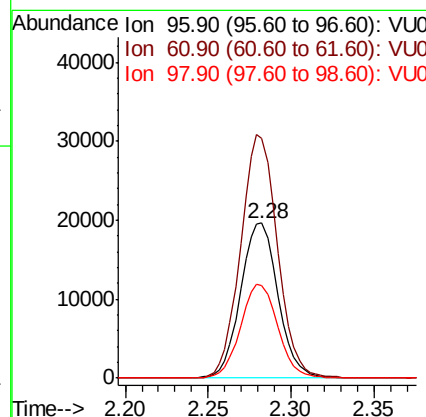
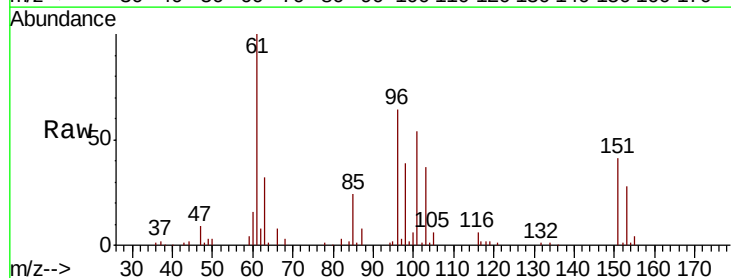
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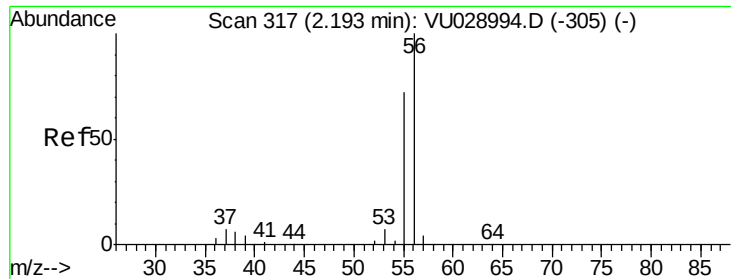
MMDadoda
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#12
1,1-Dichloroethene
Concen: 20.636 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.01 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.3	125.4	188.0
98	60.2	49.7	74.5





#13

Acrolein

Concen: 90.872 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion: 56 Resp: 30799

Ion Ratio Lower Upper

56 100

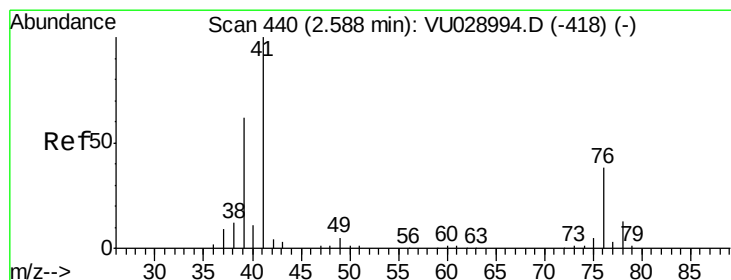
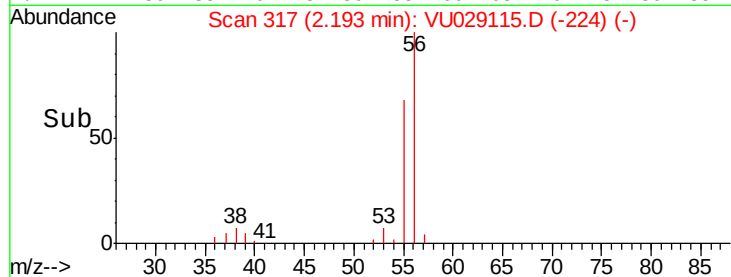
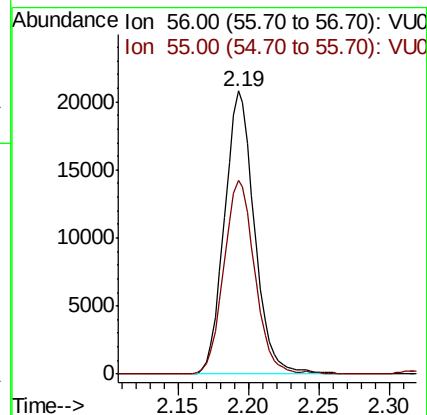
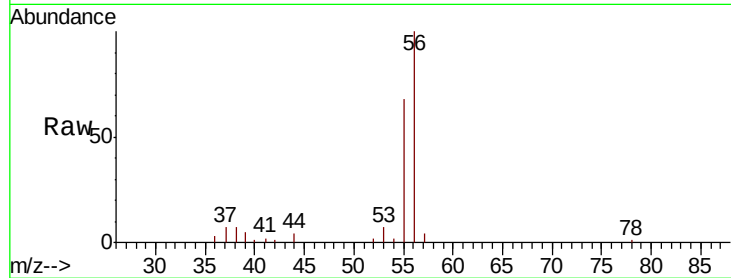
55 70.2 56.5 84.7

Manual Integrations

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#14

Allyl chloride

Concen: 17.952 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

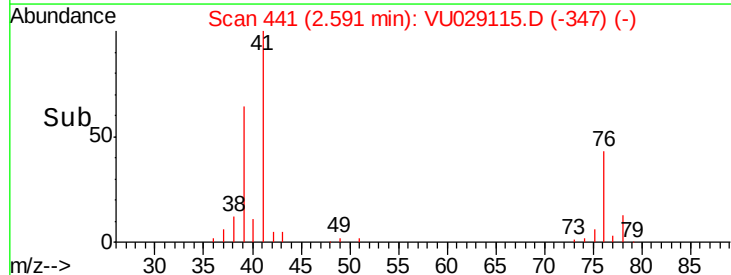
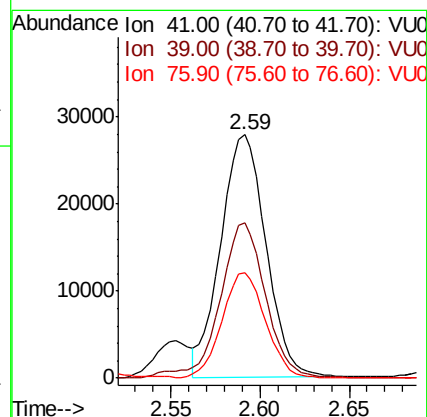
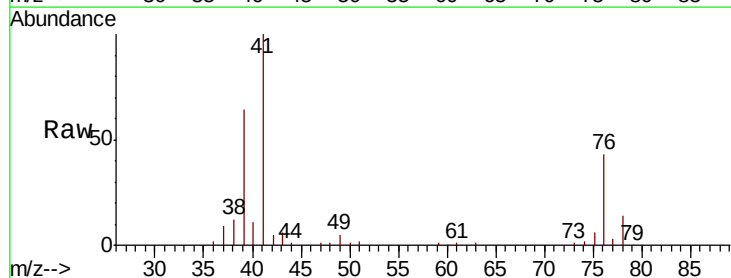
Tgt Ion: 41 Resp: 49073

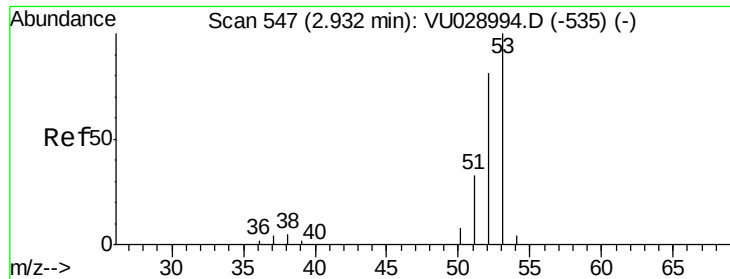
Ion Ratio Lower Upper

41 100

39 64.5 45.0 67.6

76 41.7 28.1 42.1





#15

Acrylonitrile

Concen: 108.344 ug/l

RT: 2.93 min Scan# 547

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

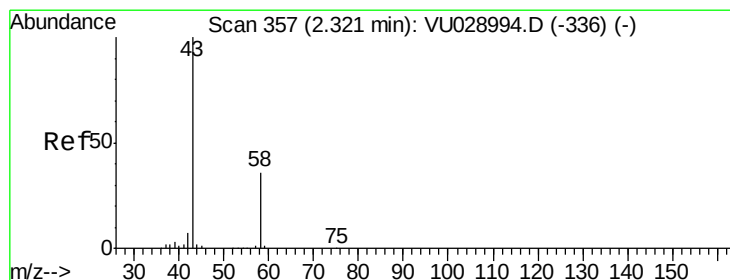
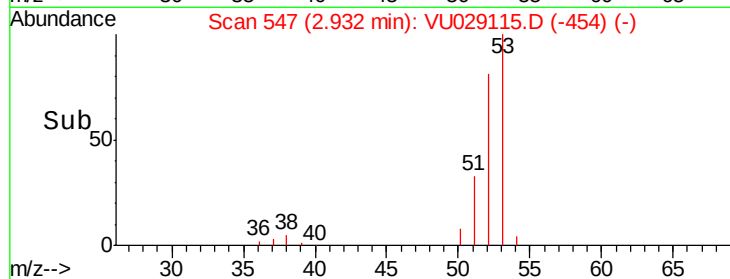
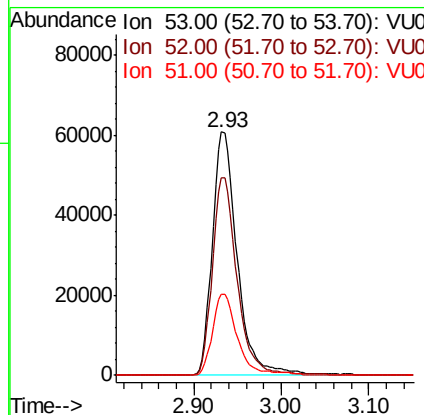
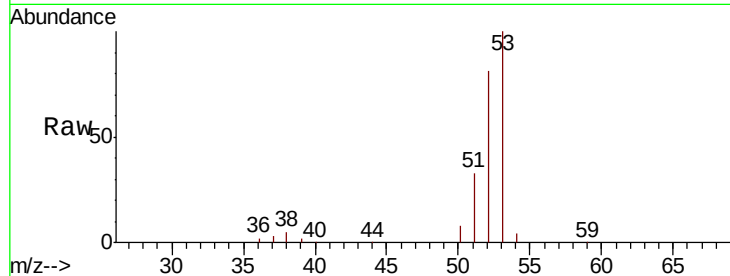
ClientSampleId :

VU0110WBSD01

Tgt Ion:	53	Resp:	119975
Ion	Ratio	Lower	Upper
53	100		
52	80.8	64.8	97.2
51	33.7	27.3	40.9

Manual Integrations
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#16

Acetone

Concen: 85.770 ug/l

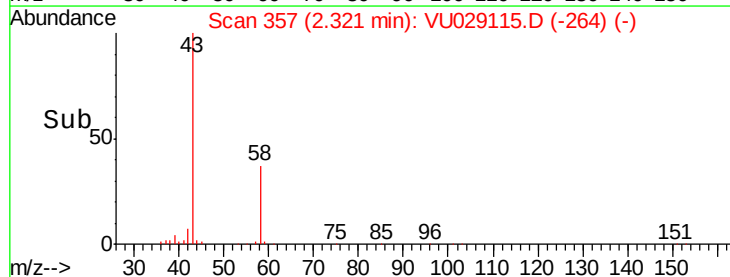
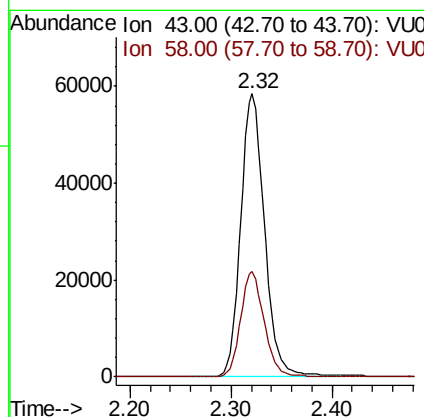
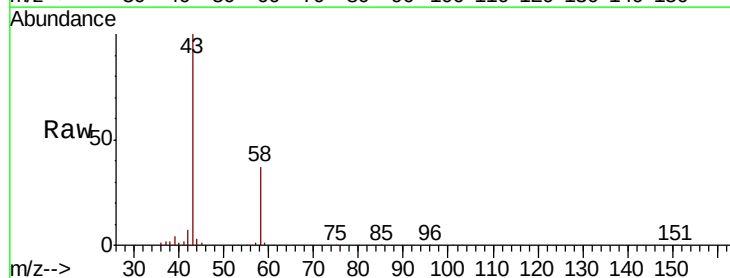
RT: 2.32 min Scan# 357

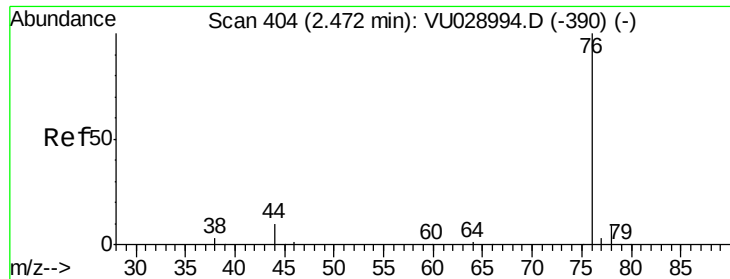
Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Tgt Ion:	43	Resp:	95946
Ion	Ratio	Lower	Upper
43	100		
58	37.1	28.6	42.8





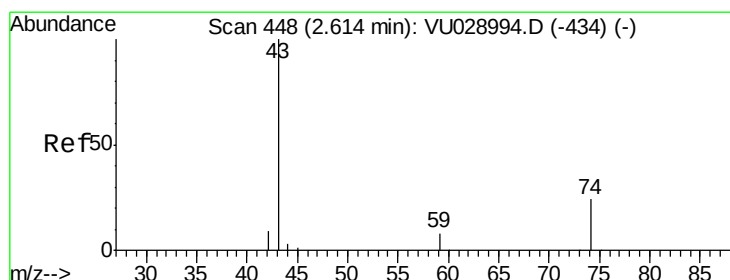
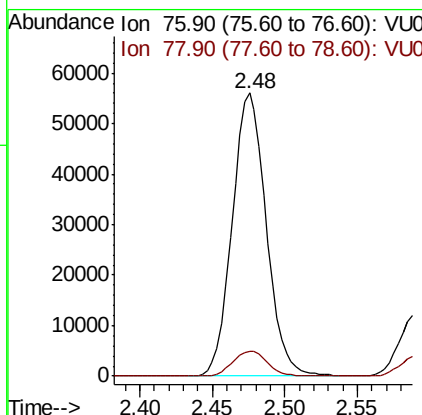
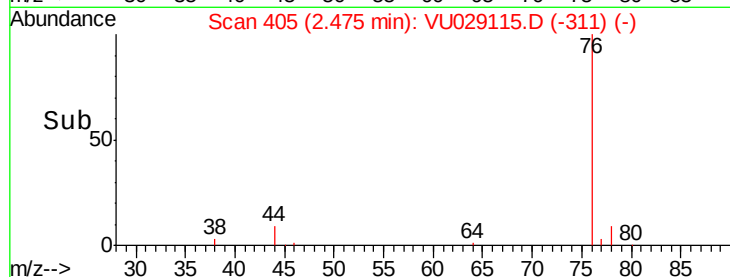
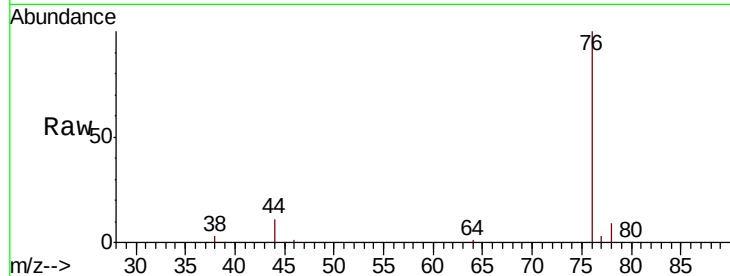
#17
Carbon Disulfide
Concen: 18.140 ug/l
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion: 76 Resp: 91242
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8

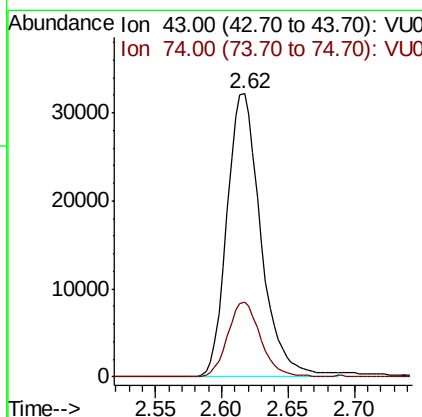
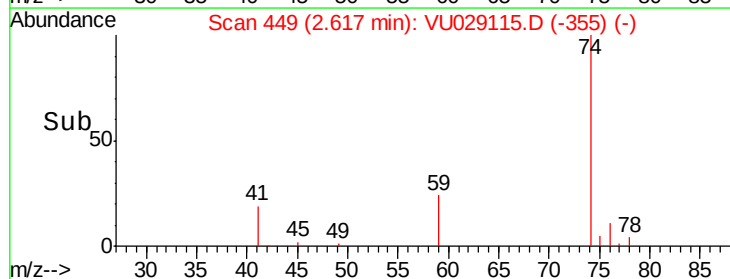
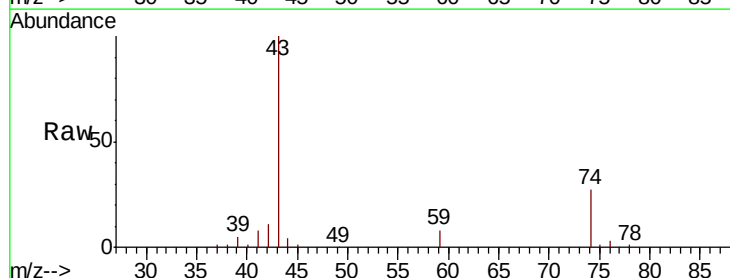
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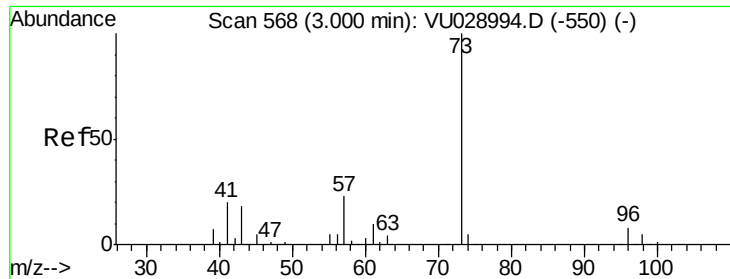
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#18
Methyl Acetate
Concen: 22.092 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion: 43 Resp: 57462
Ion Ratio Lower Upper
43 100
74 25.6 19.5 29.3





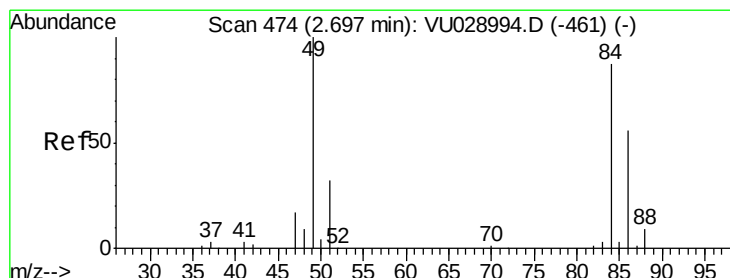
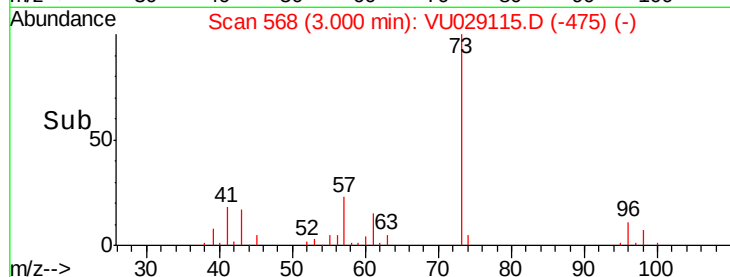
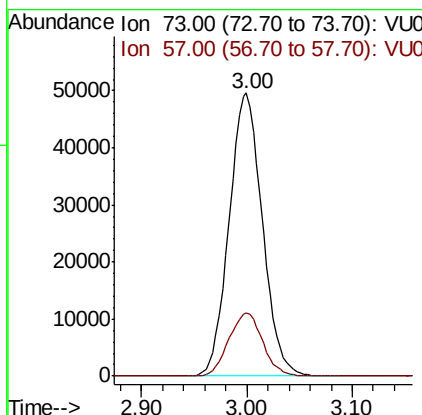
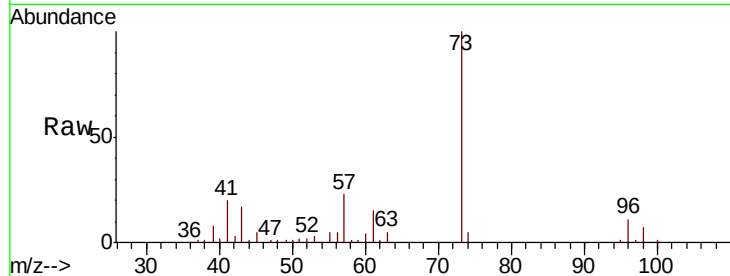
#19
Methyl tert-butyl Ether
Concen: 20.649 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion: 73 Resp: 108156
Ion Ratio Lower Upper
73 100
57 22.5 18.6 28.0

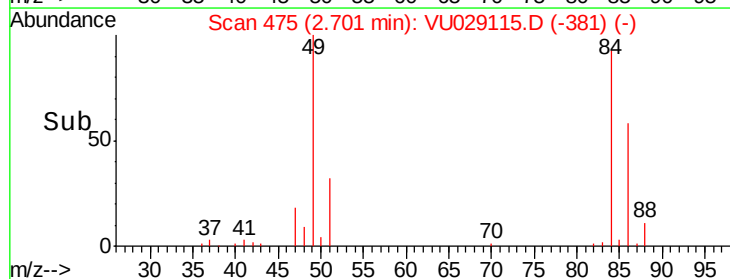
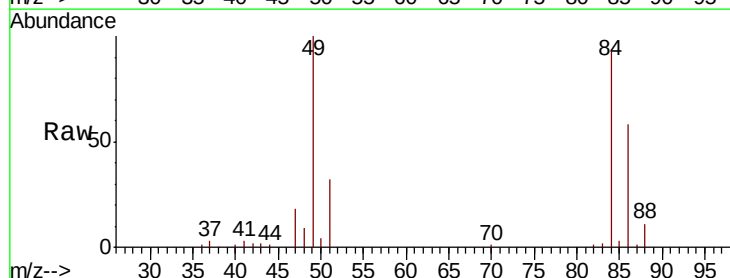
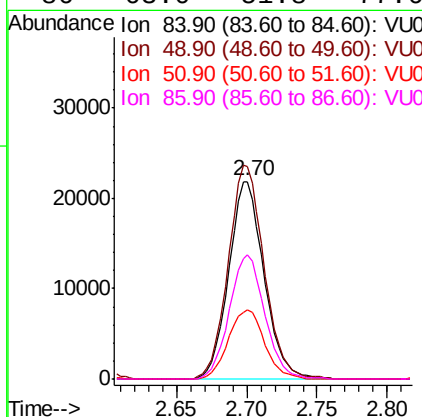
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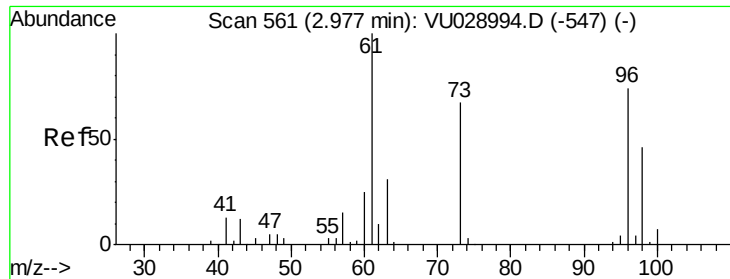
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#20
Methylene Chloride
Concen: 20.109 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion: 84 Resp: 38193
Ion Ratio Lower Upper
84 100
49 107.9 91.9 137.9
51 34.9 29.2 43.8
86 63.0 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 18.857 ug/l

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion: 96 Resp: 32640

Ion Ratio Lower Upper

96 100

61 137.0 107.7 161.5

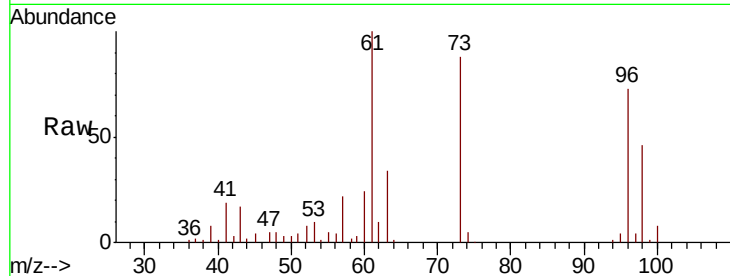
98 63.4 49.2 73.8

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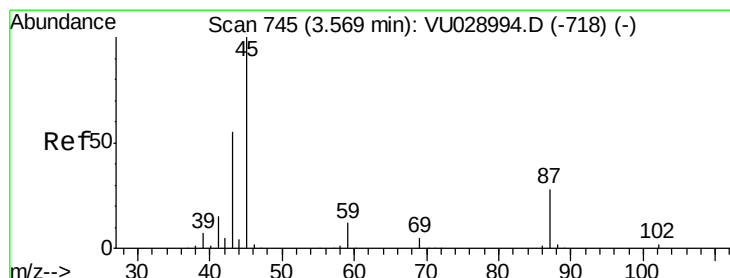
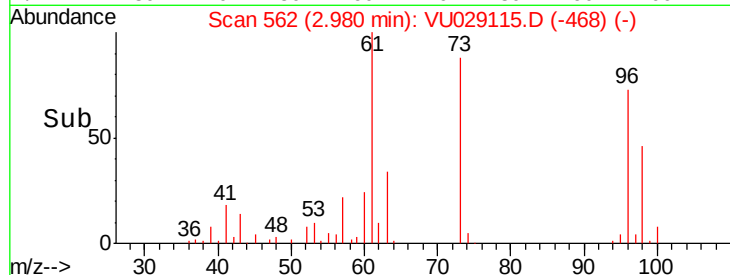
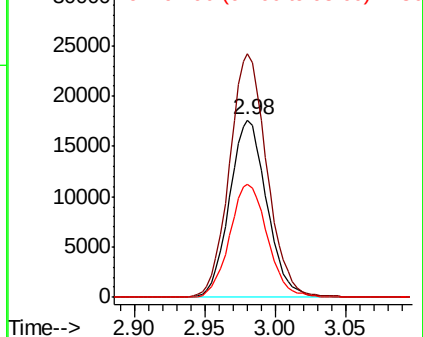


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 20.473 ug/l

RT: 3.57 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Tgt Ion: 45 Resp: 110605

Ion Ratio Lower Upper

45 100

43 61.4 44.7 67.1

87 27.3 22.2 33.2

59 11.4 9.8 14.8

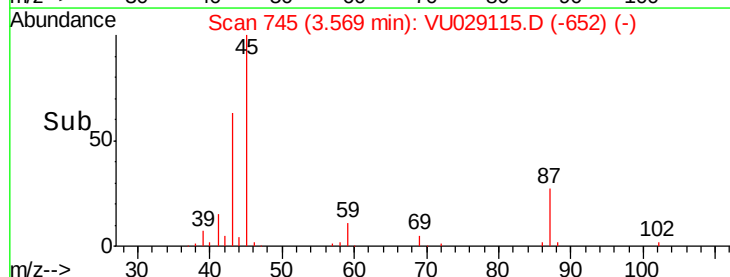
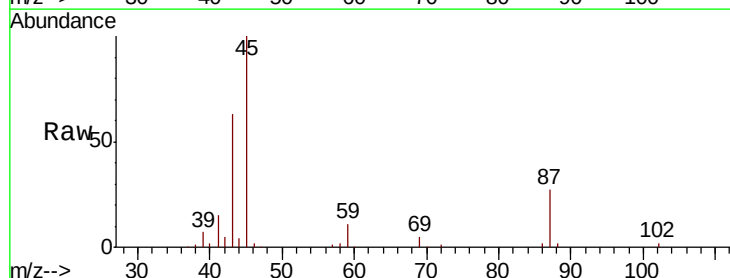
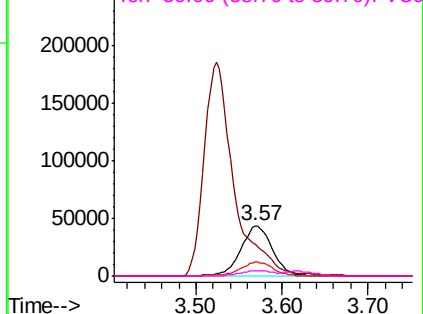
Abundance

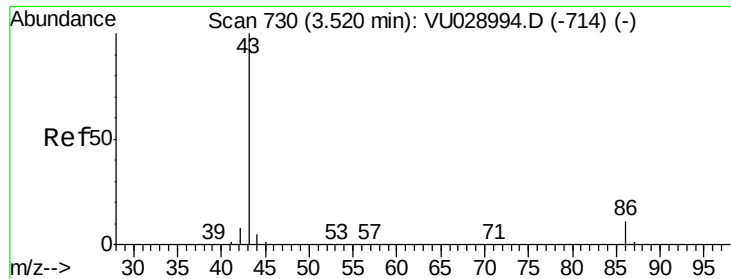
Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 102.030 ug/l

RT: 3.52 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion: 43 Resp: 450622

Ion Ratio Lower Upper

43 100

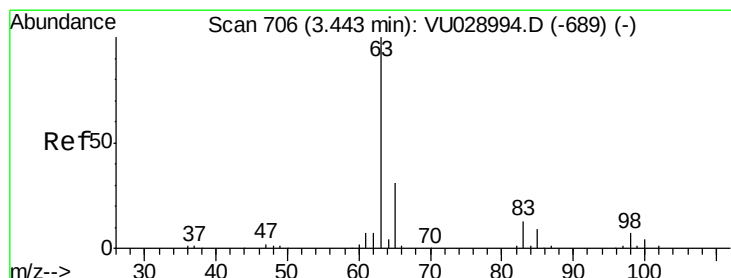
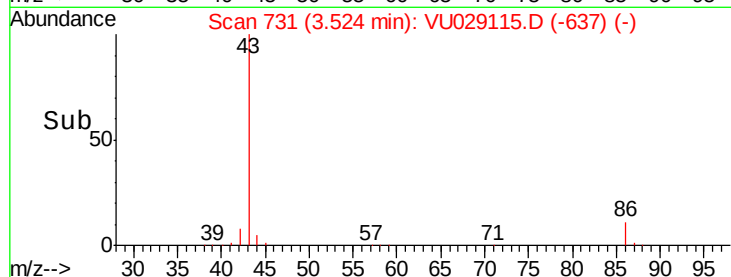
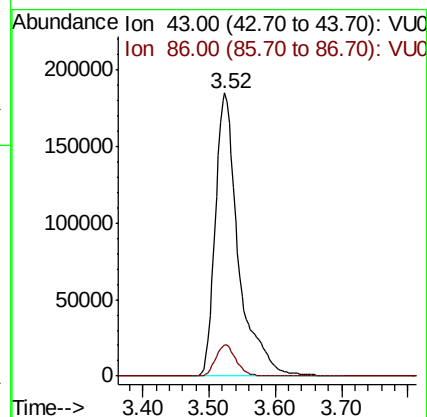
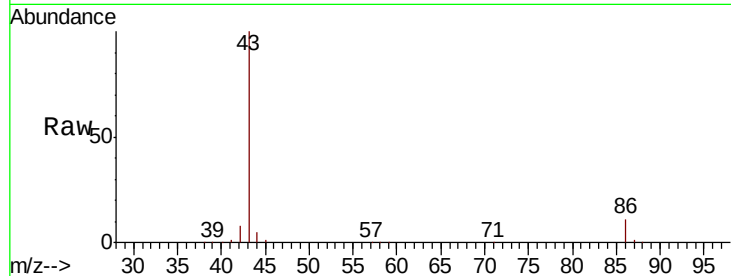
86 11.1 8.6 13.0

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#24

1,1-Dichloroethane

Concen: 20.660 ug/l

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

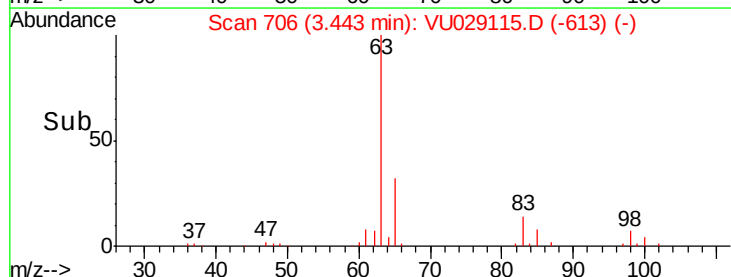
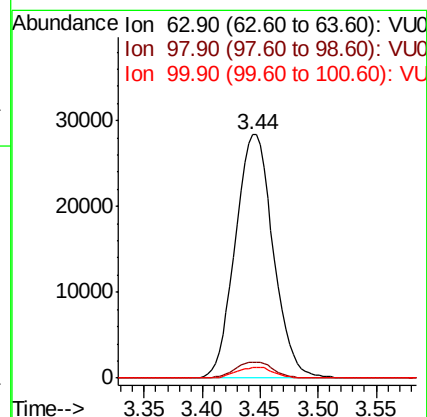
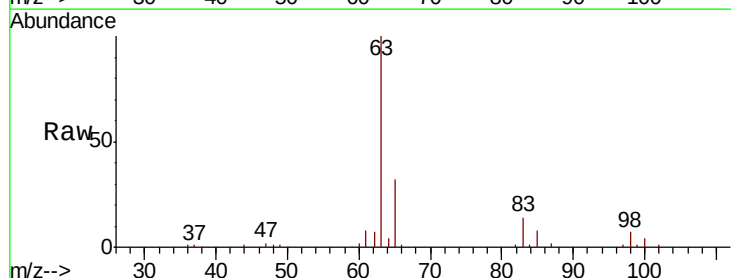
Tgt Ion: 63 Resp: 64432

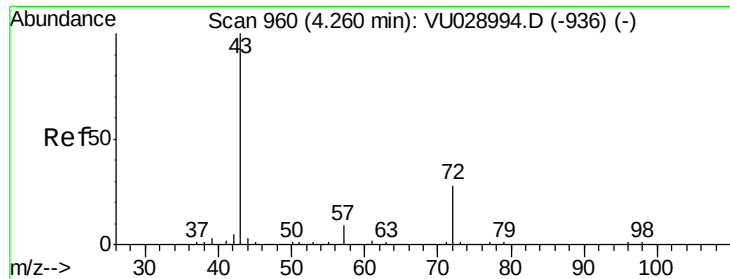
Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.1

100 4.3 2.0 5.8





#25

2-Butanone

Concen: 102.543 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion: 43 Resp: 154932

Ion Ratio Lower Upper

43 100

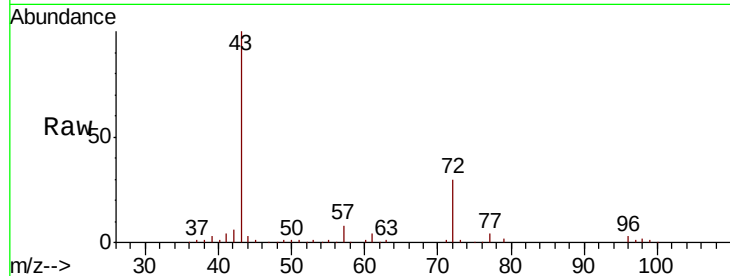
72 29.7 22.6 33.8

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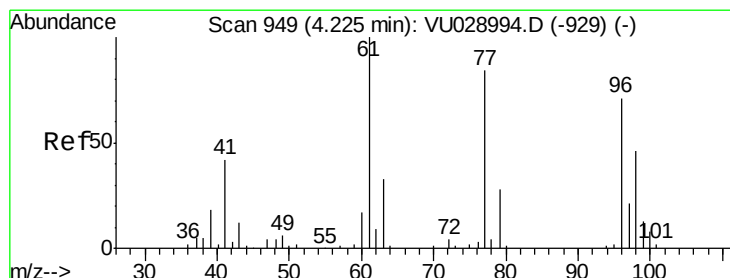
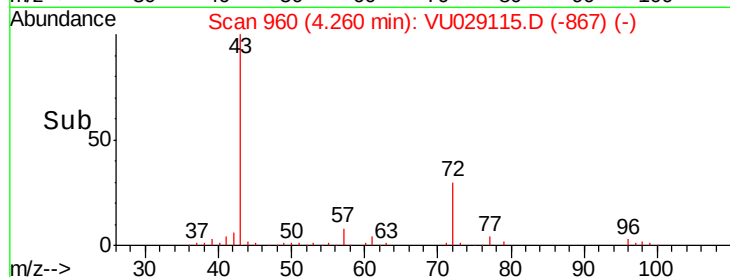
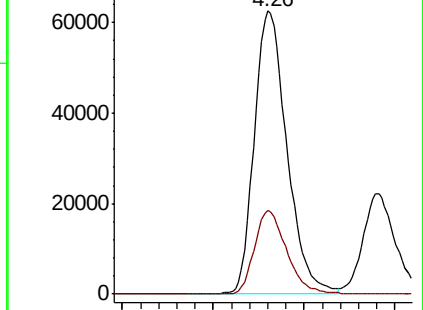
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-936) (-)

Ion 72.00 (71.70 to 72.70): VU028994.D (-936) (-)



#26

2,2-Dichloropropane

Concen: 19.687 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU029115.D

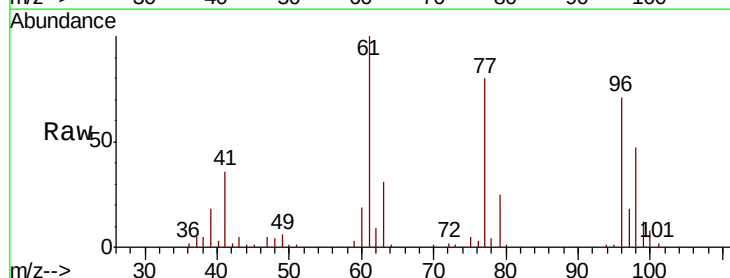
Acq: 10 Jan 2019 13:51

Tgt Ion: 77 Resp: 49610

Ion Ratio Lower Upper

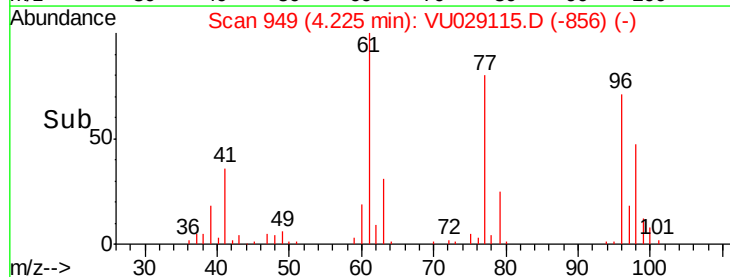
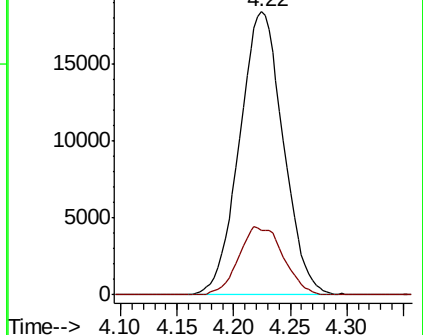
77 100

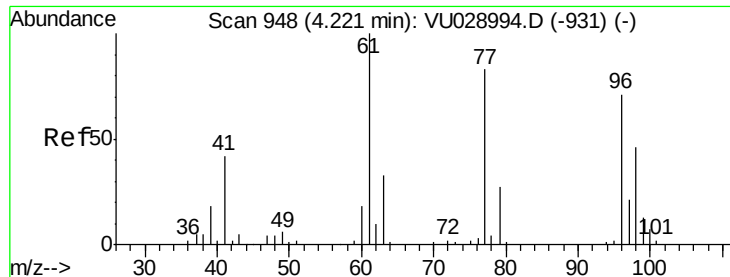
97 24.3 12.0 36.1



Abundance Ion 76.90 (76.60 to 77.60): VU028994.D (-929) (-)

Ion 96.90 (96.60 to 97.60): VU028994.D (-929) (-)





#27

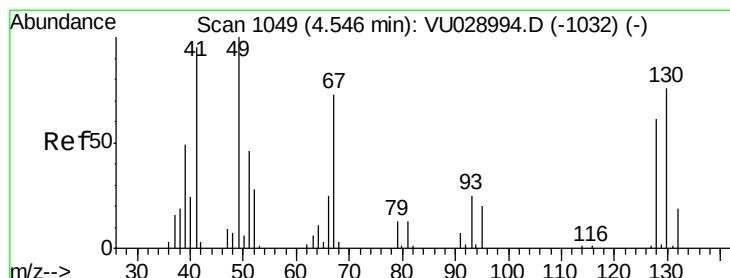
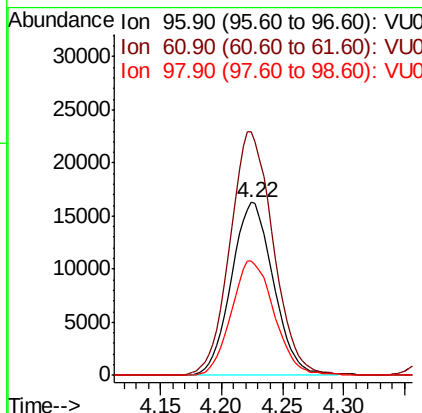
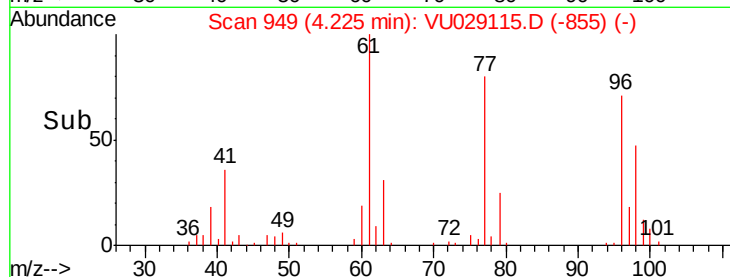
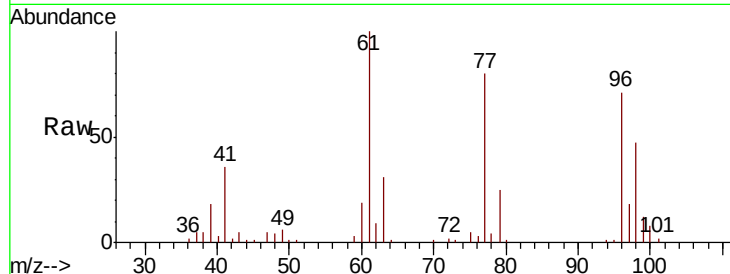
cis-1,2-Dichloroethene
Concen: 20.557 ug/l
RT: 4.22 min Scan# 949
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	38916		
61	144.7	0.0	285.6	
98	67.3	0.0	130.2	

Manual Integrations
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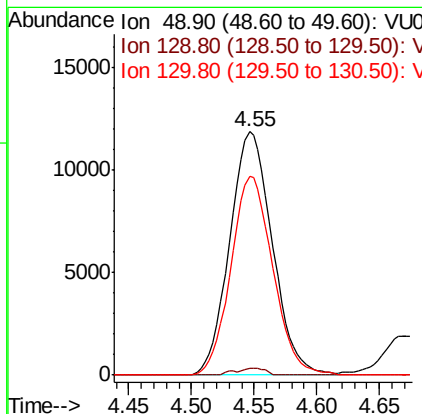
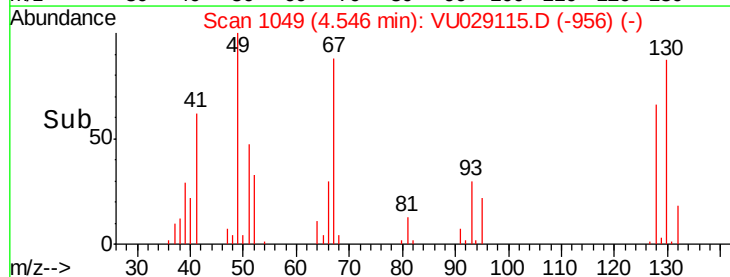
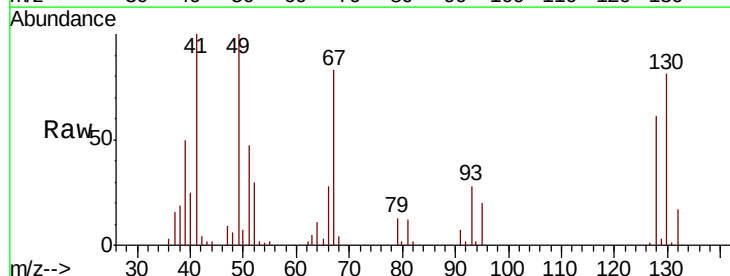
MMDadoda
1/11/2019 10:03:43 AM

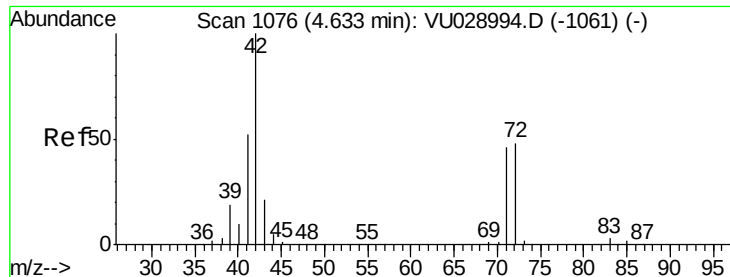


#28

Bromochloromethane
Concen: 21.040 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	28097		
129	2.0	0.0	3.4	
130	80.1	62.9	94.3	





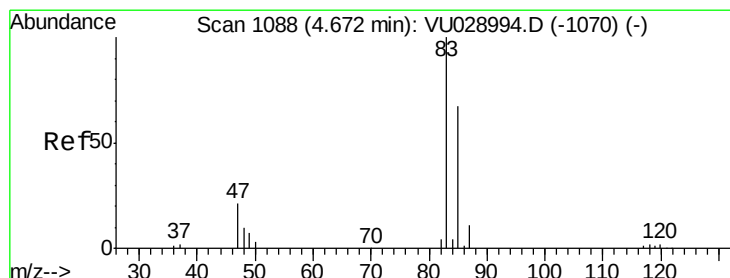
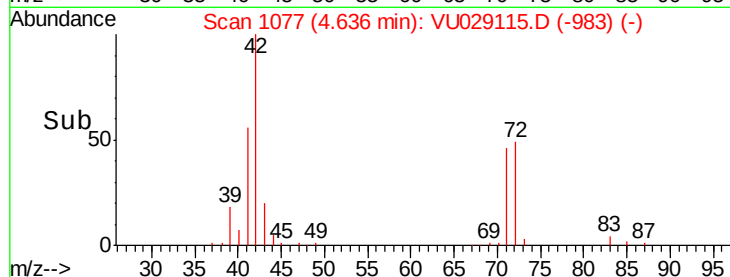
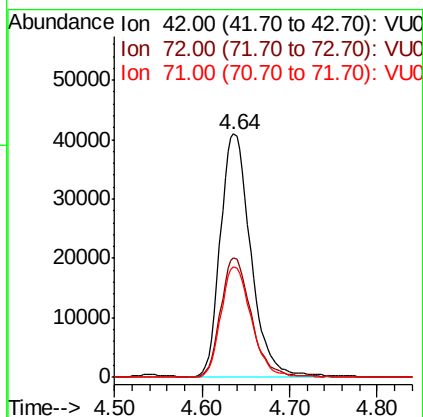
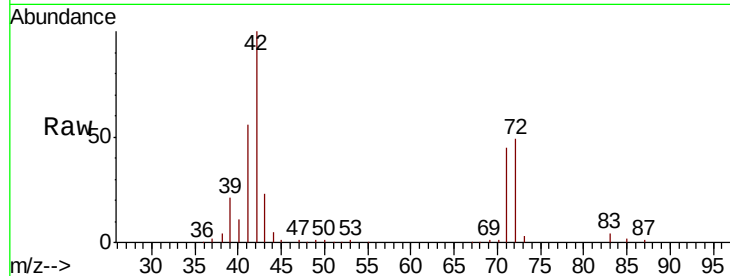
#29
Tetrahydrofuran
Concen: 108.871 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	49.0	38.3	57.5
71	45.3	36.1	54.1

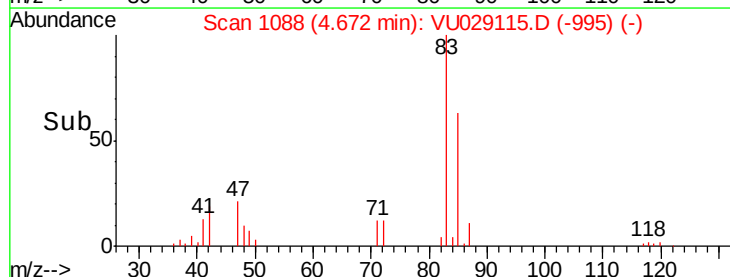
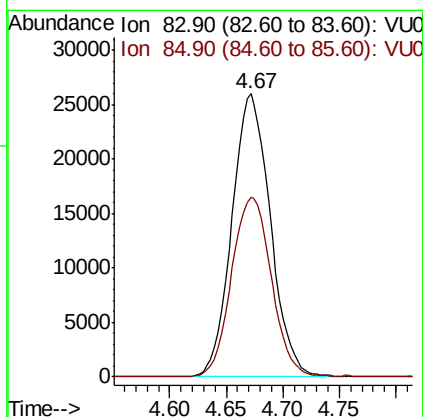
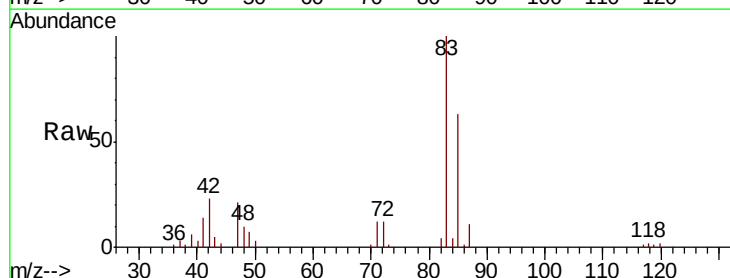
Manual Integrations
APPROVED

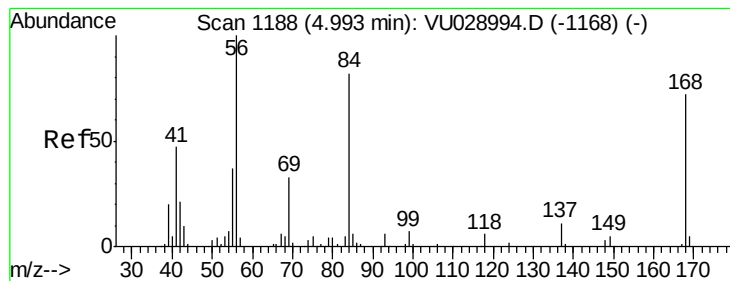
MMDadoda
1/11/2019 10:03:43 AM



#30
Chloroform
Concen: 20.712 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	53.4	80.0





#31

Cyclohexane

Concen: 19.356 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

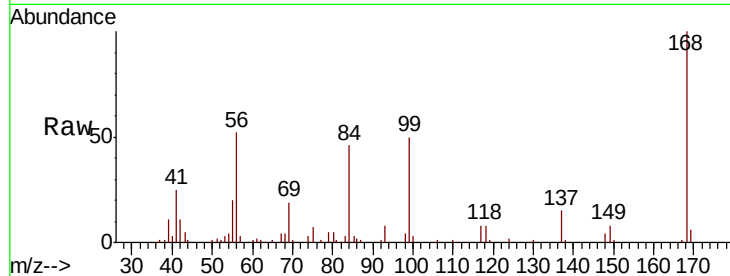
ClientSampleId :

VU0110WBSD01

Tgt Ion:	56	Resp:	59011
Ion Ratio	Lower	Upper	
56	100		
69	35.8	26.7	40.1
84	87.9	65.7	98.5

Manual Integrations
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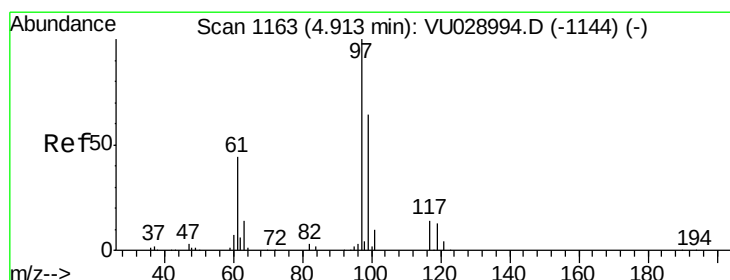
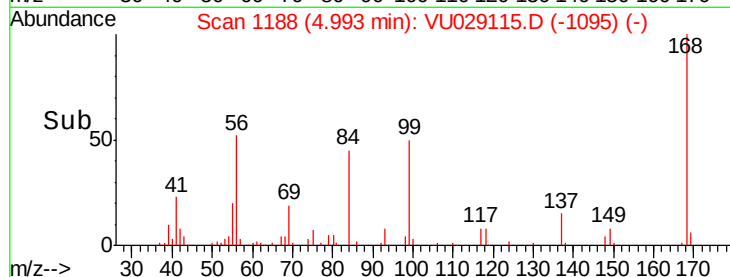
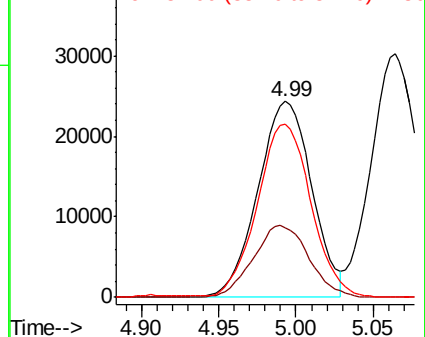


Abundance

Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#32

1,1,1-Trichloroethane

Concen: 20.826 ug/l

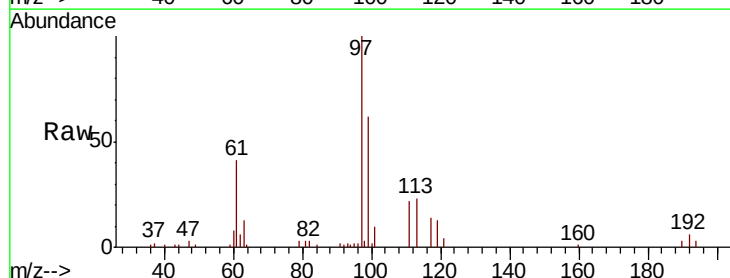
RT: 4.91 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Tgt Ion:	97	Resp:	51117
Ion Ratio	Lower	Upper	
97	100		
99	62.4	51.0	76.4
61	41.7	34.4	51.6

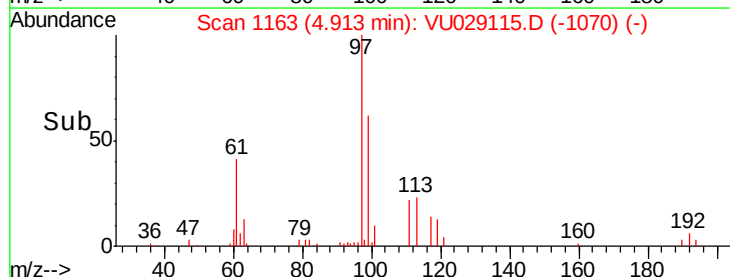
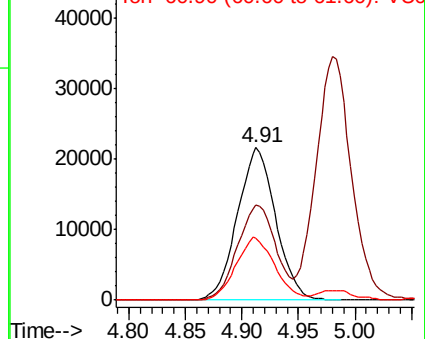


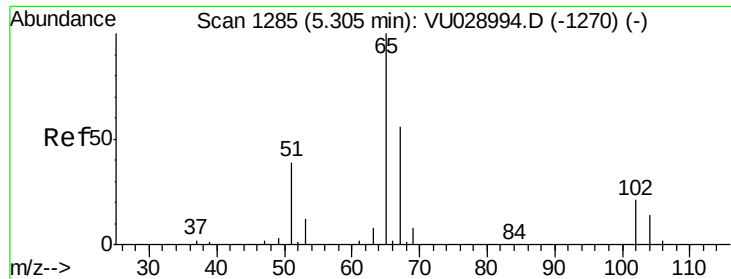
Abundance

Ion 96.90 (96.60 to 97.60): VU0

Ion 98.90 (98.60 to 99.60): VU0

Ion 60.90 (60.60 to 61.60): VU0





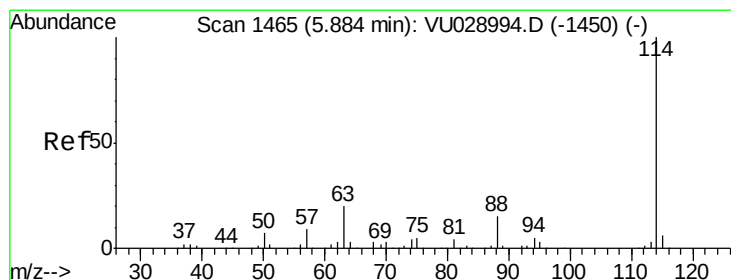
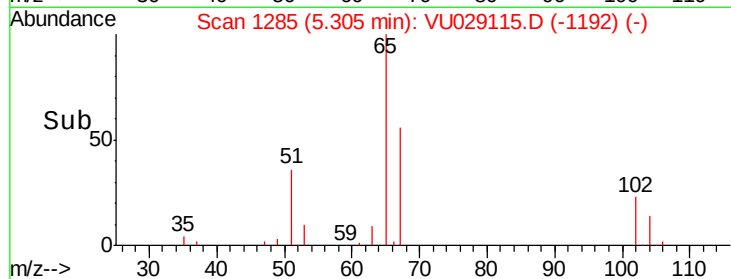
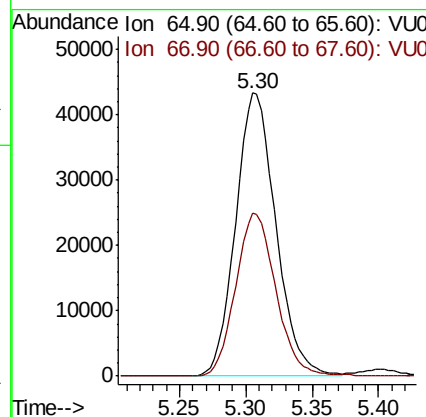
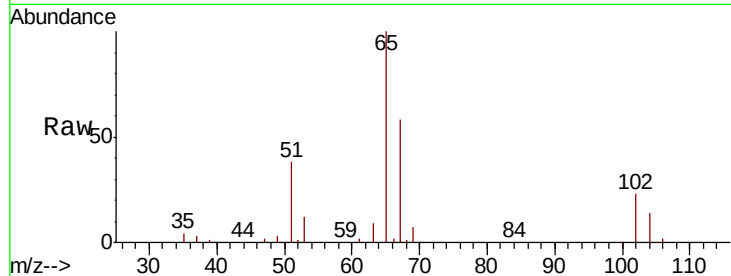
#33
 1,2-Dichloroethane-d4
 Concen: 51.536 ug/l
 RT: 5.30 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	91515		
67	57.2	0.0	111.0	

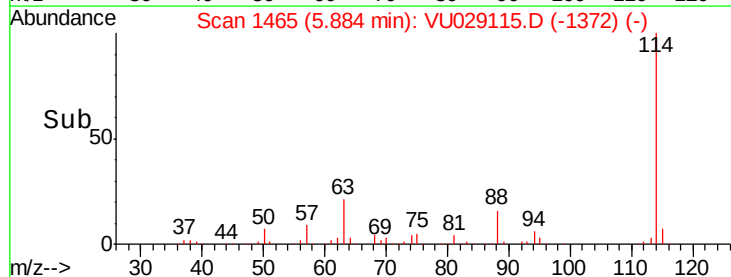
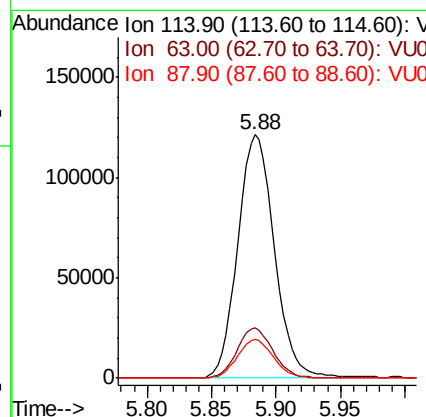
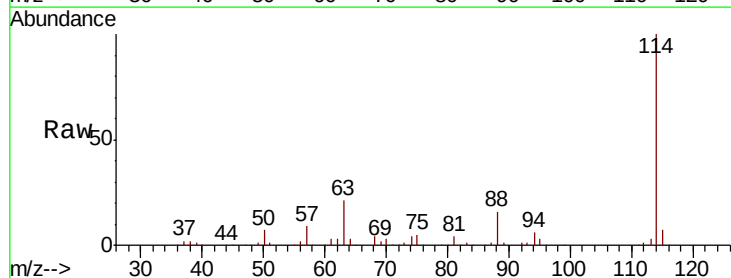
Manual Integrations
 APPROVED

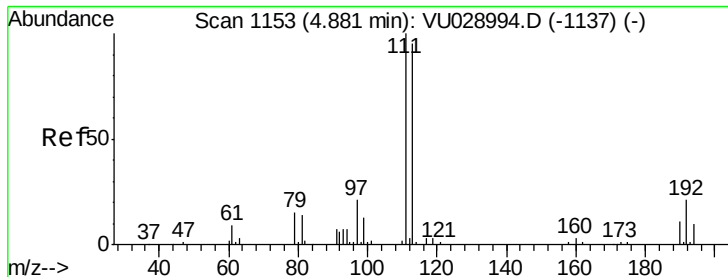
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	239395		
63	20.7	0.0	40.2	
88	15.9	0.0	30.4	





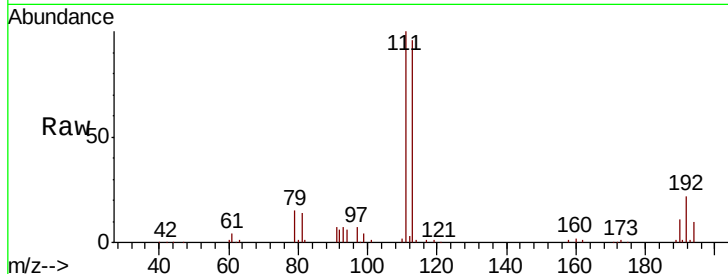
#35
 Dibromofluoromethane
 Concen: 50.584 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

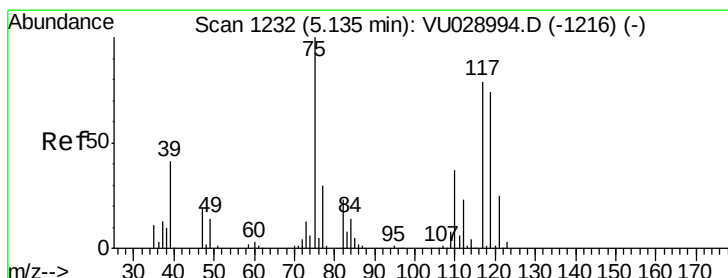
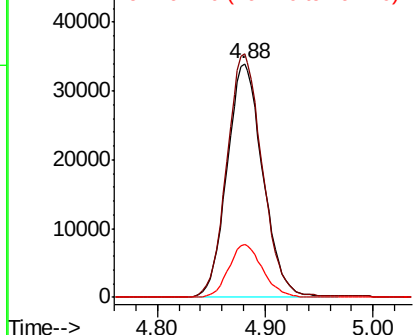
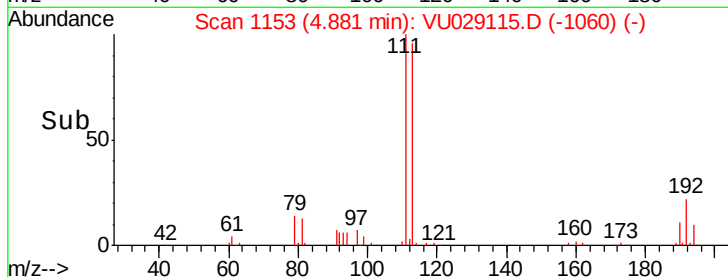
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	78498		
111	103.2	81.4	122.2	
192	21.4	16.8	25.2	

Manual Integrations
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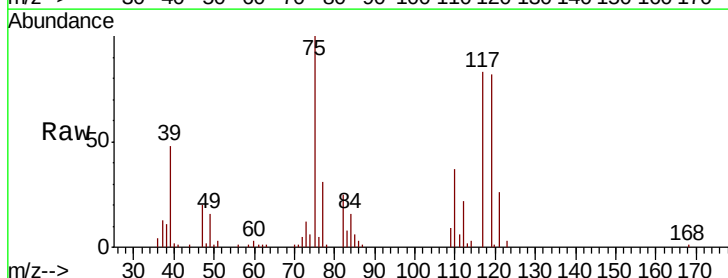


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

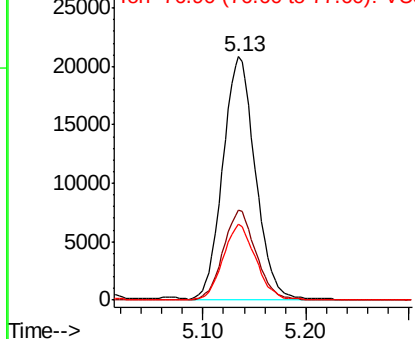
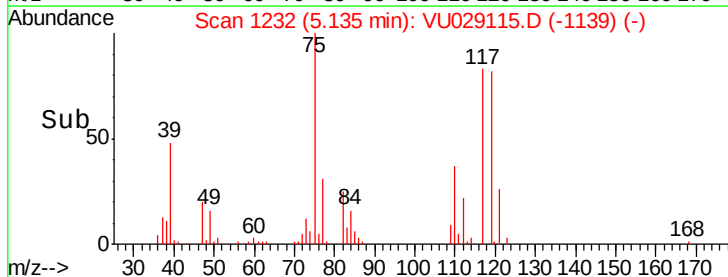


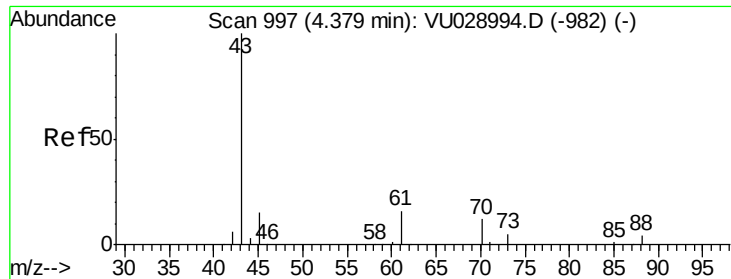
#36
 1,1-Dichloropropene
 Concen: 19.269 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	46107		
110	36.7	18.4	55.4	
77	30.8	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





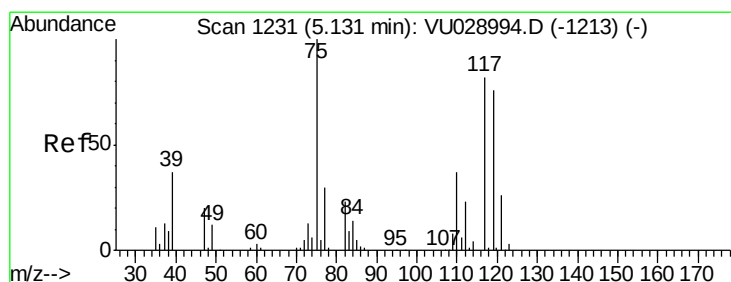
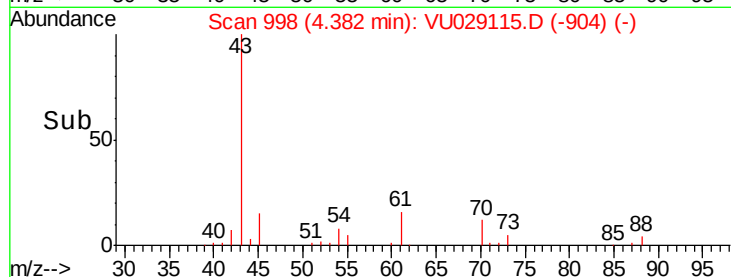
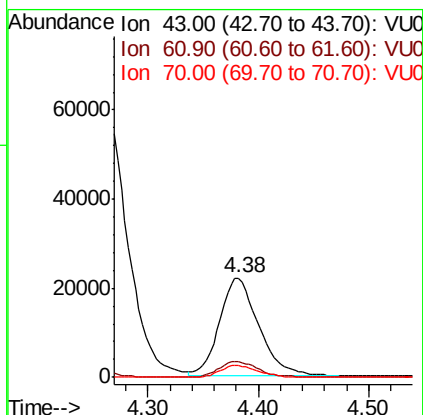
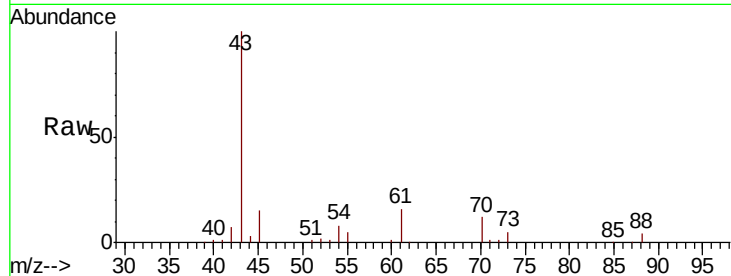
#37
Ethyl Acetate
Concen: 20.599 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.5	12.6	18.8
70	11.8	9.3	13.9

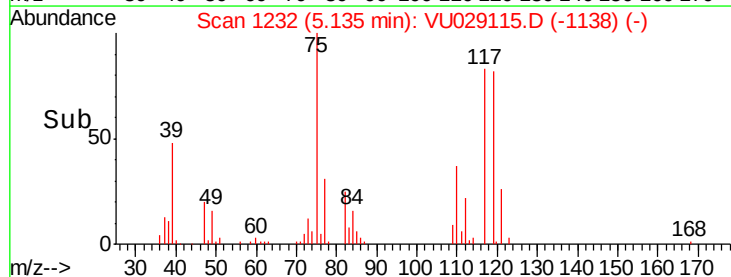
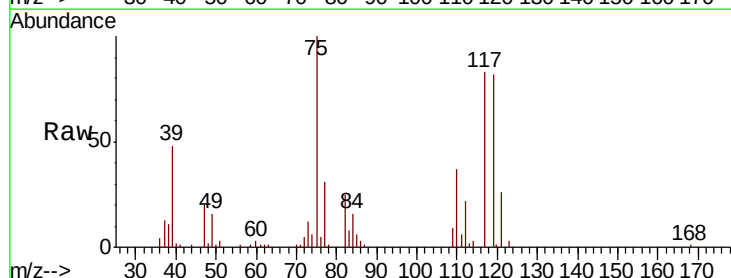
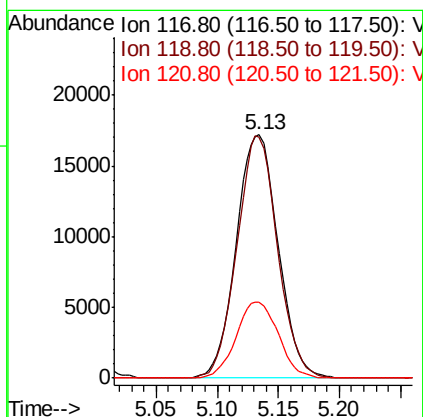
Manual Integrations
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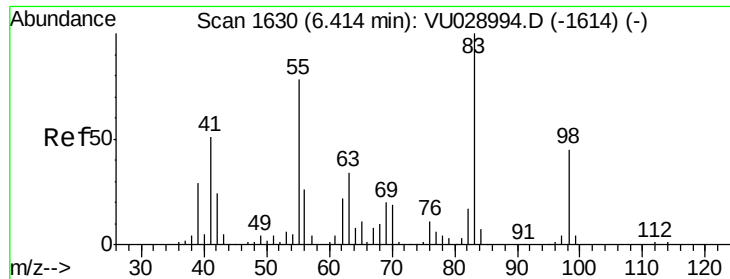
MMDadoda
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#38
Carbon Tetrachloride
Concen: 20.409 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.8	74.6	111.8
121	31.0	25.0	37.6





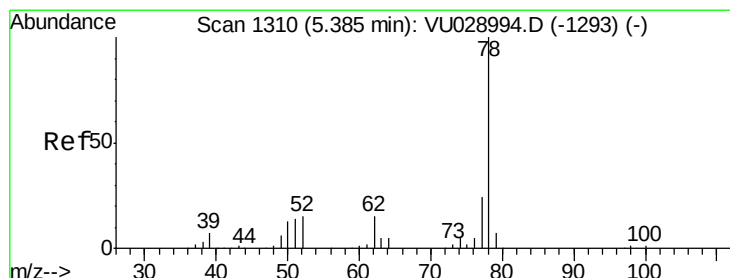
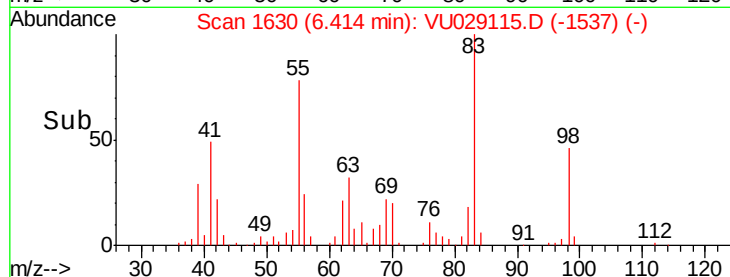
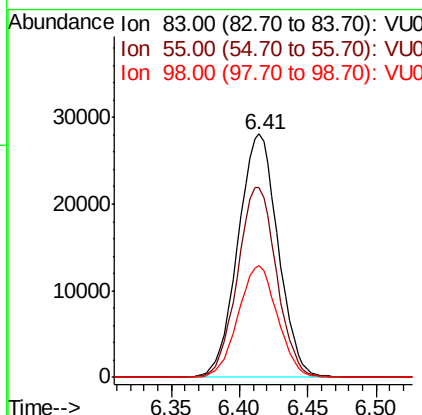
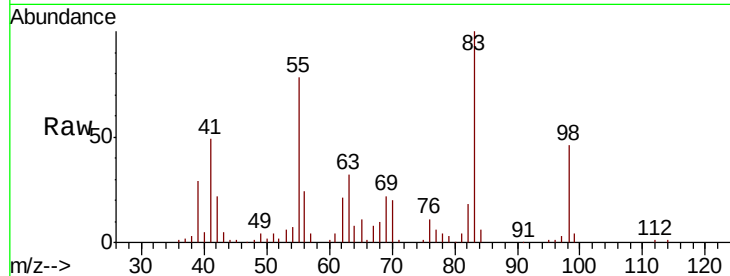
#39
Methylcyclohexane
Concen: 19.476 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.8	62.4	93.6
98	45.8	36.2	54.2

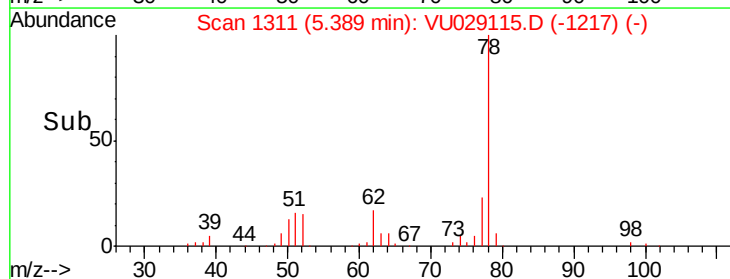
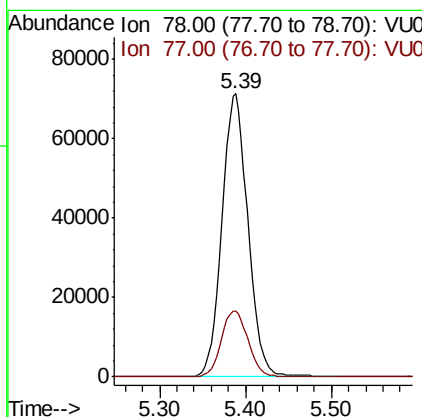
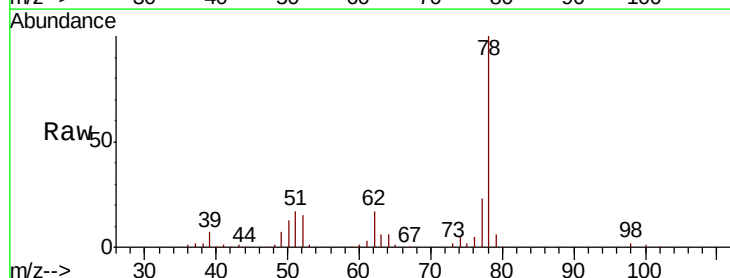
Manual Integrations
APPROVED

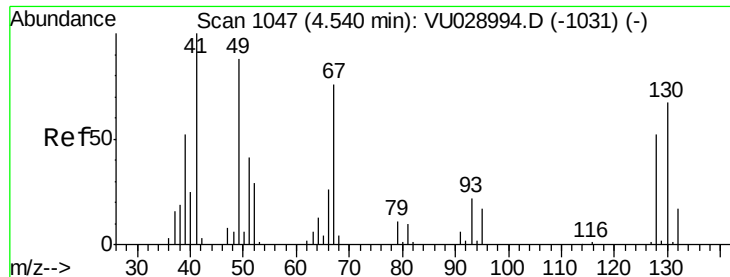
MMDadoda
1/11/2019 10:03:43 AM



#40
Benzene
Concen: 20.083 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.9	28.3





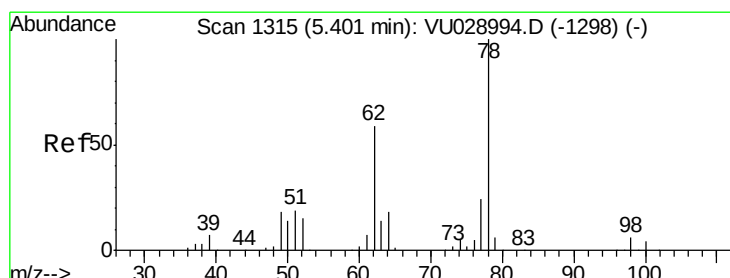
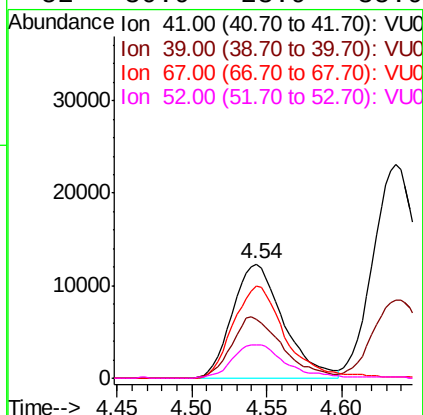
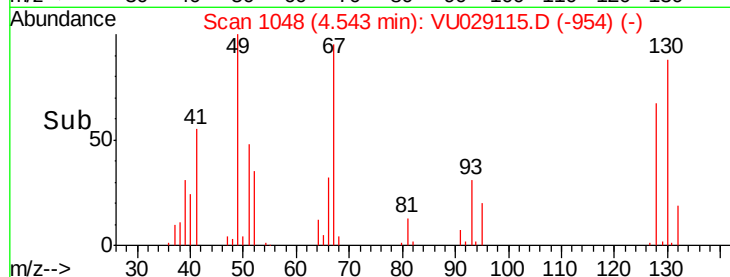
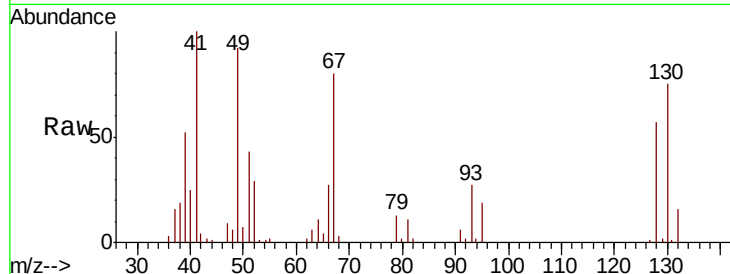
#41
Methacrylonitrile
Concen: 20.861 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	53.2	42.3	63.5
67	81.9	64.4	96.6
52	30.9	23.9	35.9

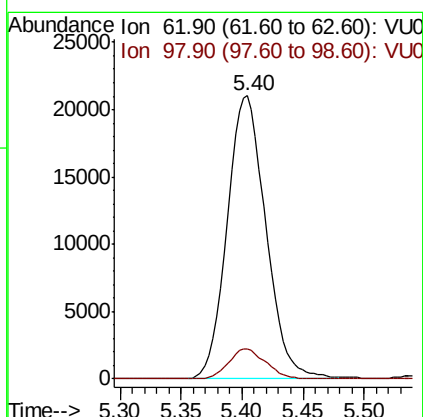
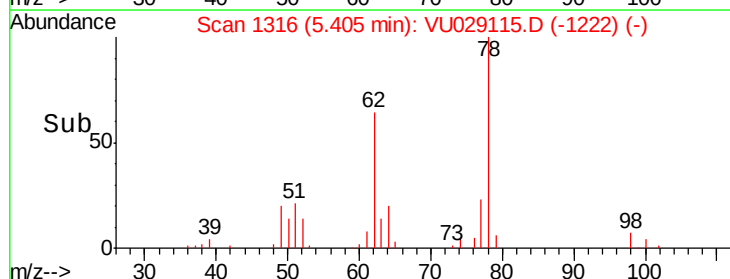
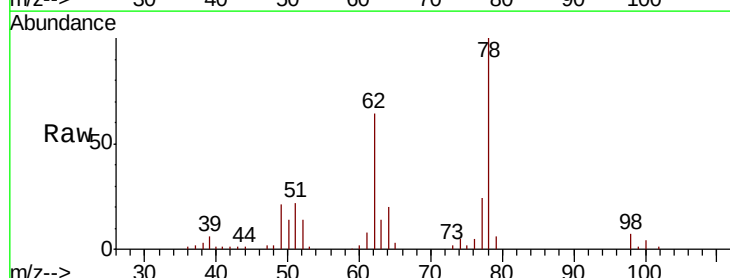
Manual Integrations
APPROVED

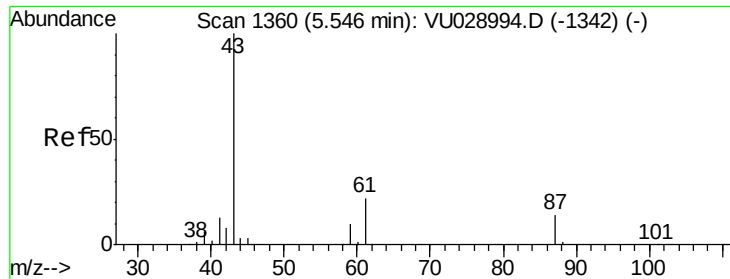
MMDadoda
1/11/2019 10:03:43 AM



#42
1,2-Dichloroethane
Concen: 20.708 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.6





#43

Isopropyl Acetate

Concen: 21.122 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

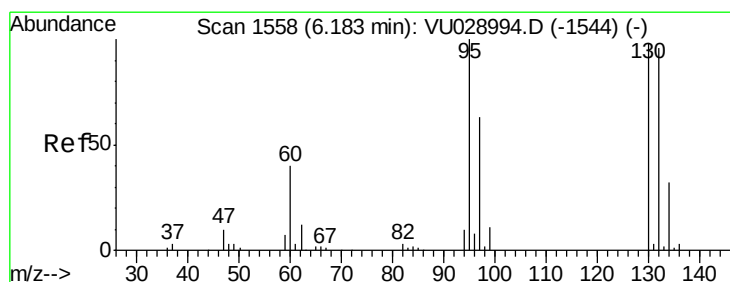
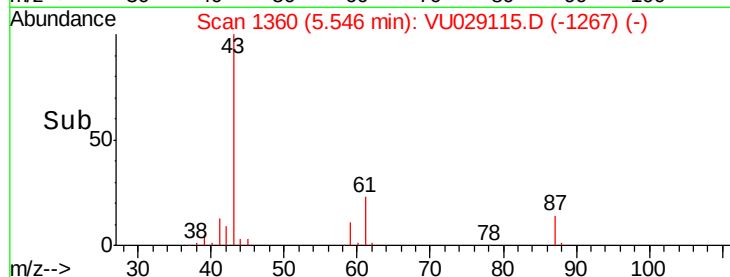
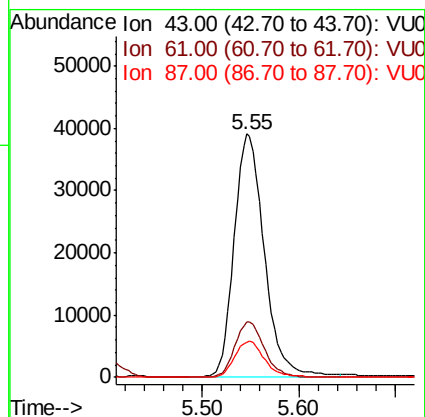
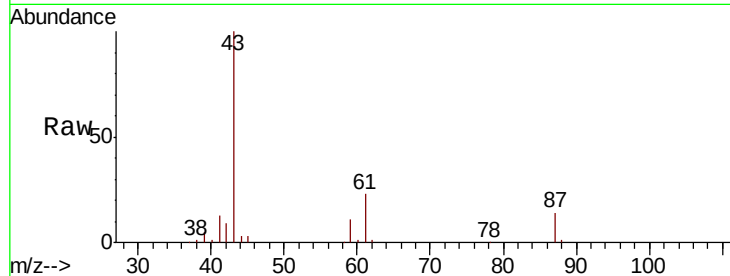
ClientSampleId :

VU0110WBSD01

Tgt Ion:	43	Resp:	85103
Ion	Ratio	Lower	Upper
43	100		
61	22.1	17.8	26.6
87	14.5	11.3	16.9

Manual Integrations
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#44

Trichloroethene

Concen: 19.323 ug/l

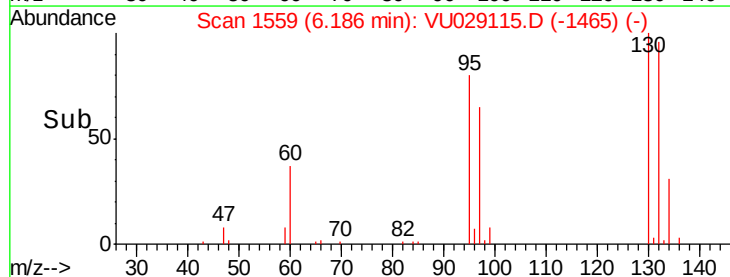
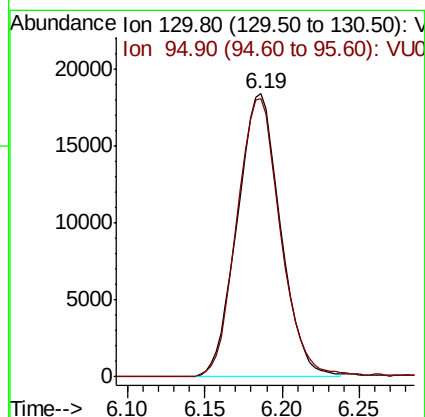
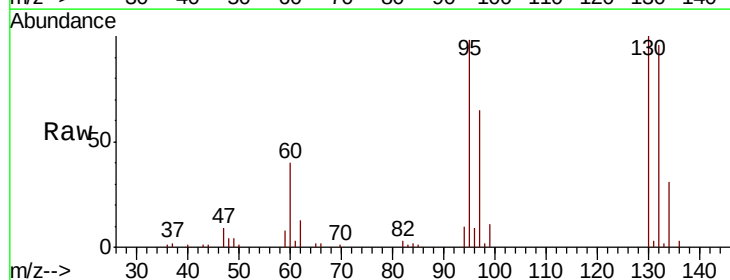
RT: 6.19 min Scan# 1559

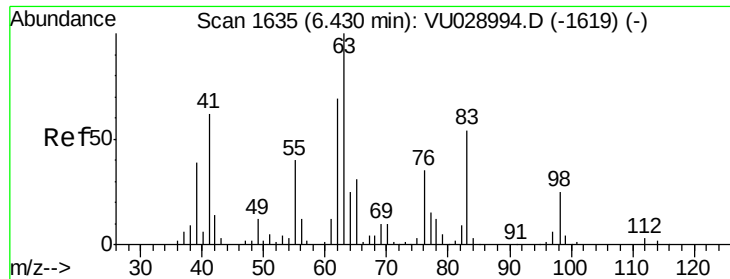
Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Tgt Ion:	130	Resp:	35735
Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	205.0





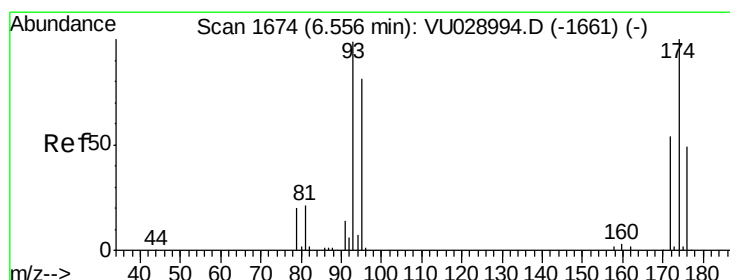
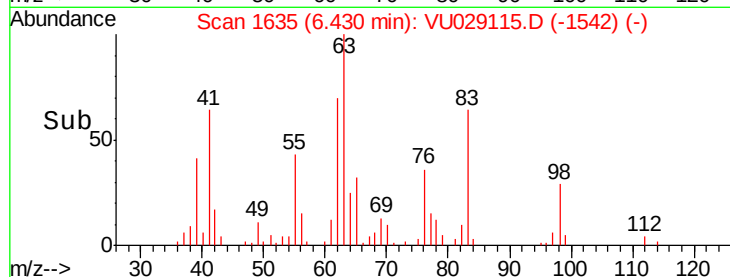
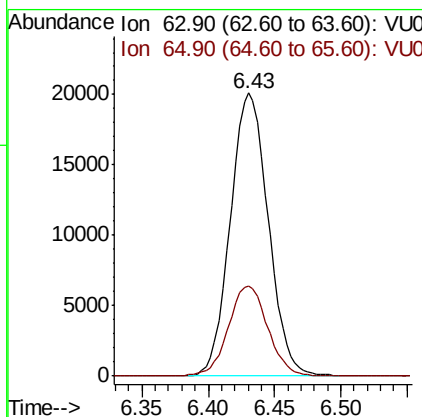
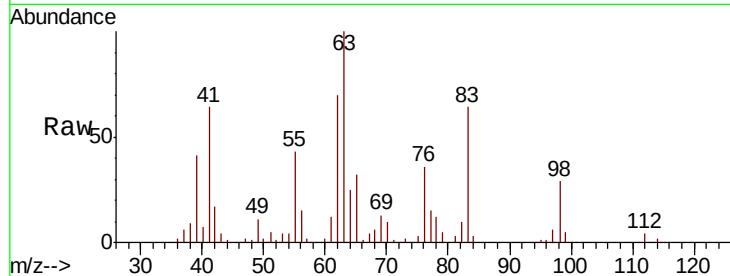
#45
 1,2-Dichloropropane
 Concen: 20.295 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

Tgt Ion: 63 Resp: 40003
 Ion Ratio Lower Upper
 63 100
 65 31.8 25.1 37.7

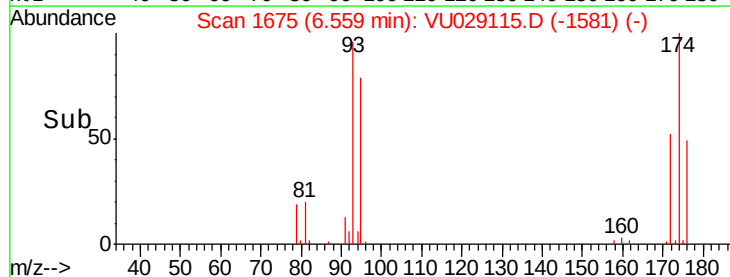
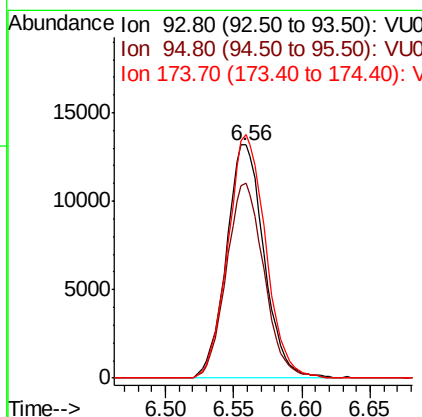
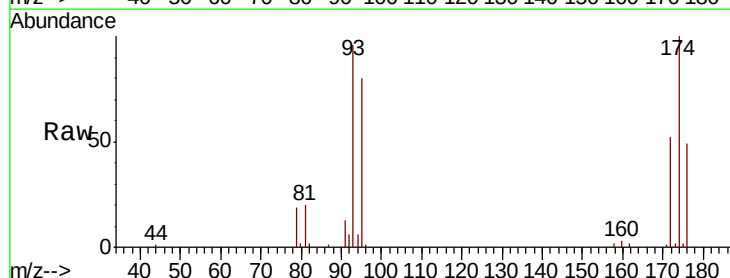
Manual Integrations
 APPROVED

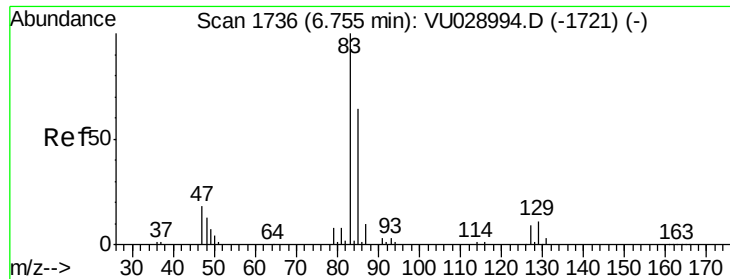
MMDadoda
 1/11/2019 10:03:43 AM



#46
 Dibromomethane
 Concen: 20.028 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion: 93 Resp: 25236
 Ion Ratio Lower Upper
 93 100
 95 83.7 67.2 100.8
 174 104.7 82.6 123.8





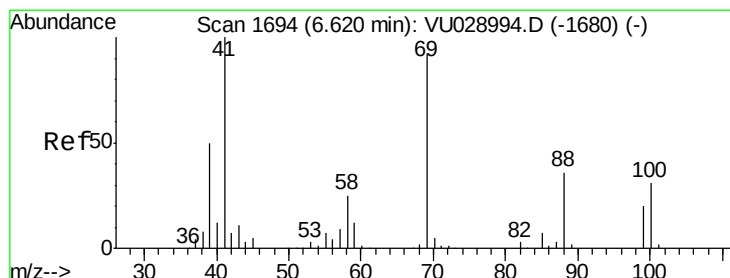
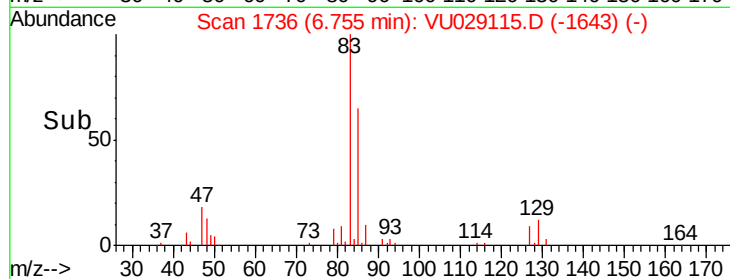
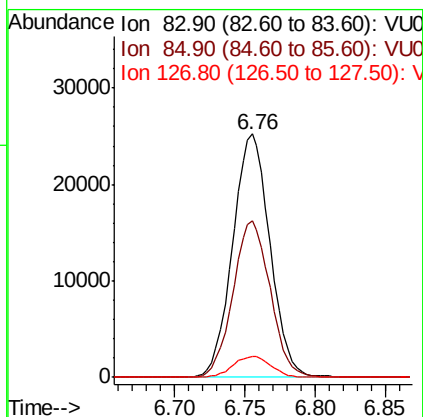
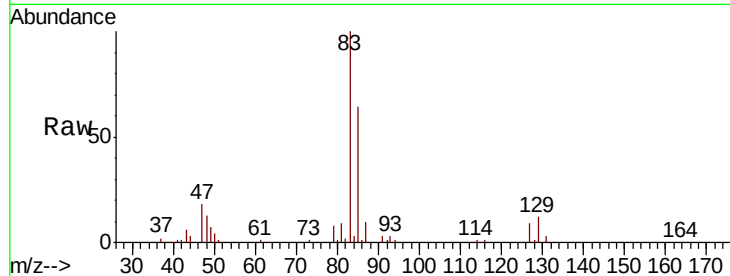
#47
Bromodichloromethane
Concen: 20.110 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.4	77.2
127	8.5	7.0	10.4

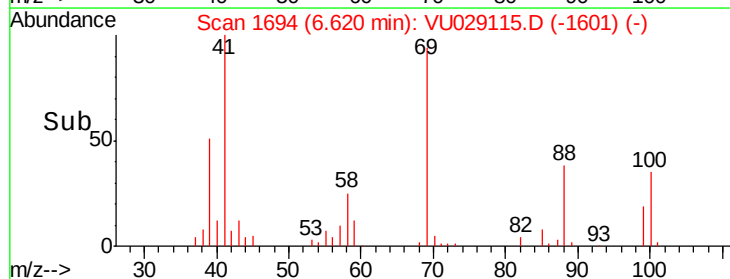
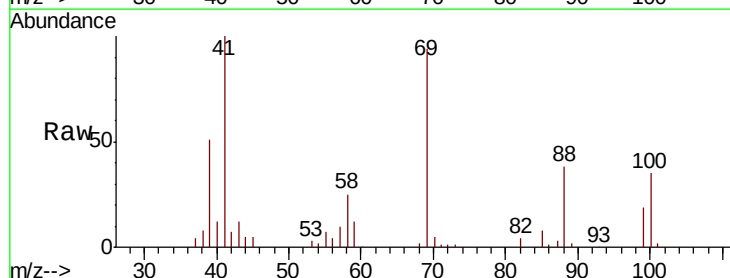
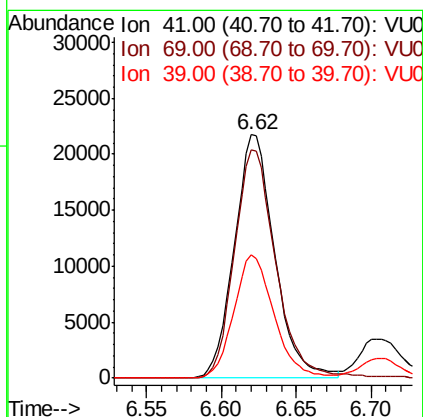
Manual Integrations
APPROVED

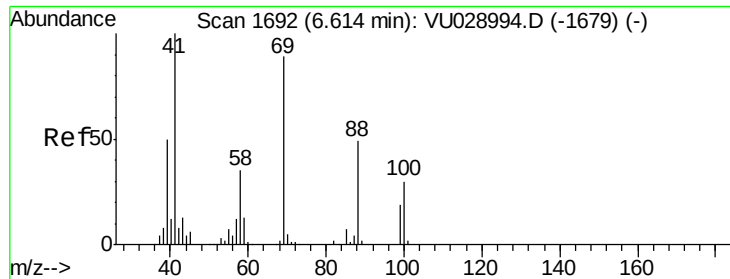
MMDadoda
1/11/2019 10:03:43 AM



#48
Methyl methacrylate
Concen: 20.802 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
41	100		
69	96.0	73.6	110.4
39	50.2	39.6	59.4





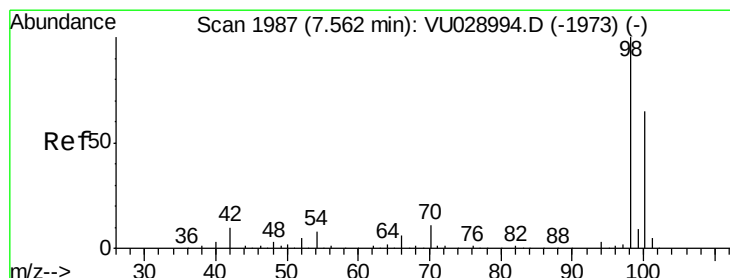
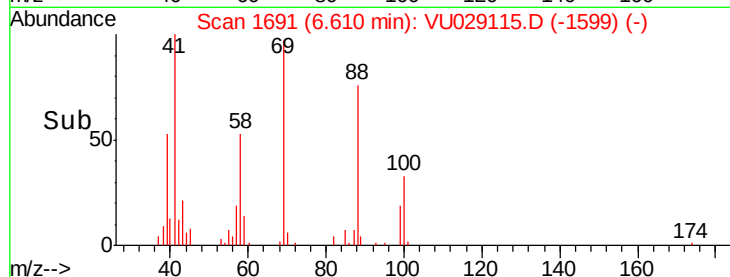
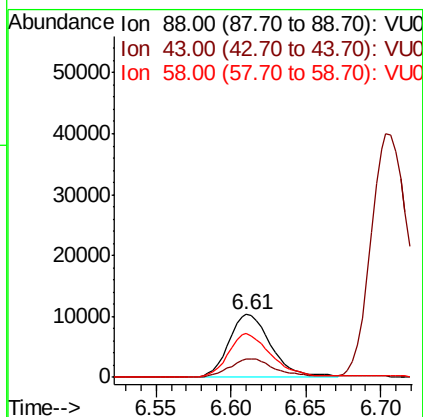
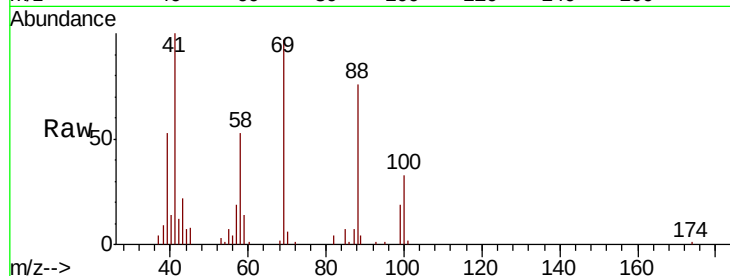
#49
1,4-Dioxane
Concen: 440.212 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	31.6	23.0	34.4
58	69.6	57.9	86.9

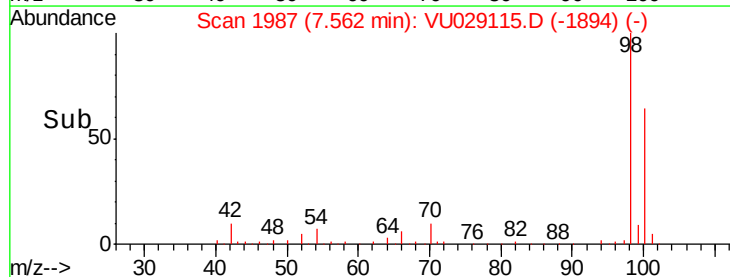
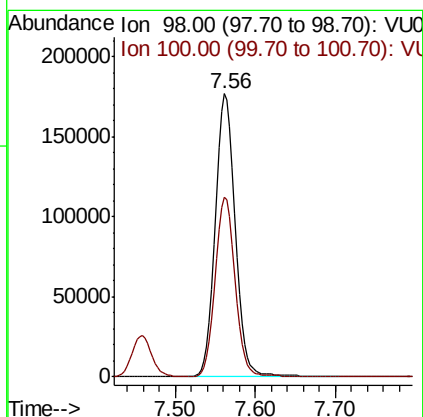
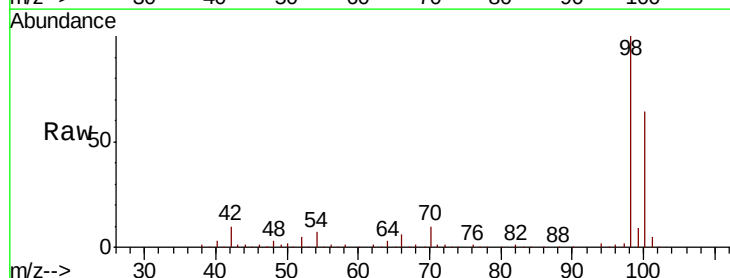
Manual Integrations
APPROVED

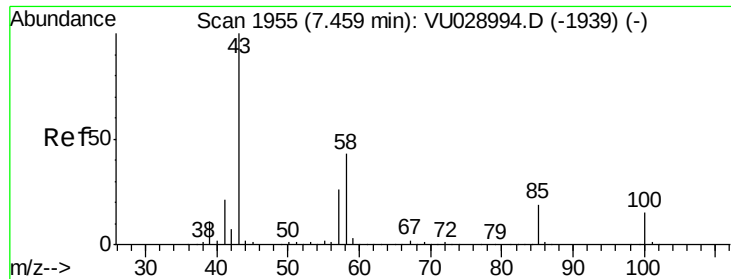
MMDadoda
1/11/2019 10:03:43 AM



#50
Toluene-d8
Concen: 50.577 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.9	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 105.124 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampled :

VU0110WBSD01

Tgt Ion: 43 Resp: 288256

Ion Ratio Lower Upper

43 100

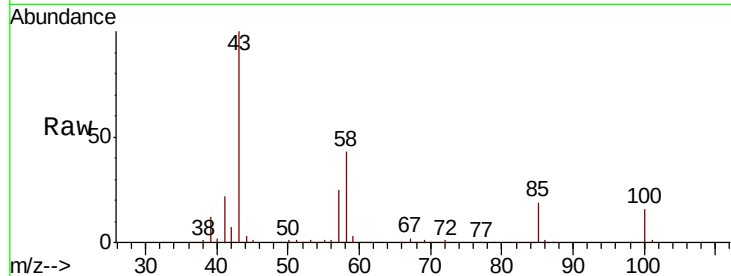
58 42.7 33.9 50.9

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028994.D (-1939) (-)

7.46

150000

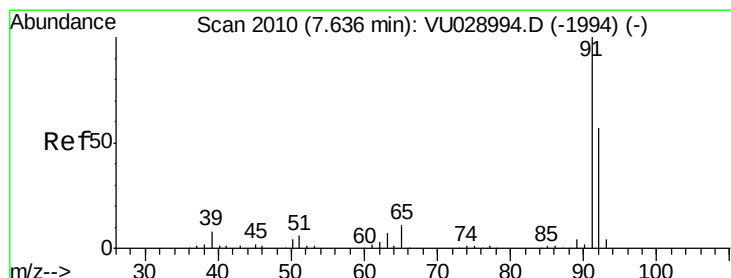
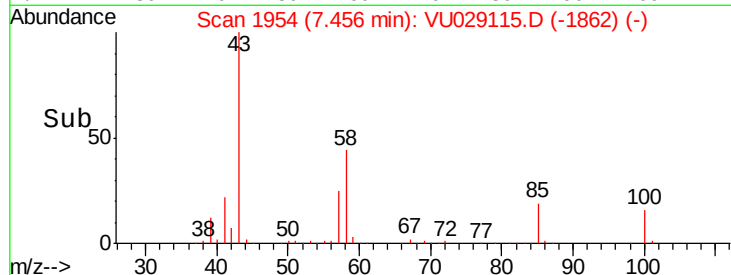
100000

50000

0

7.35 7.40 7.45 7.50 7.55

Time-->



#52

Toluene

Concen: 19.818 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU029115.D

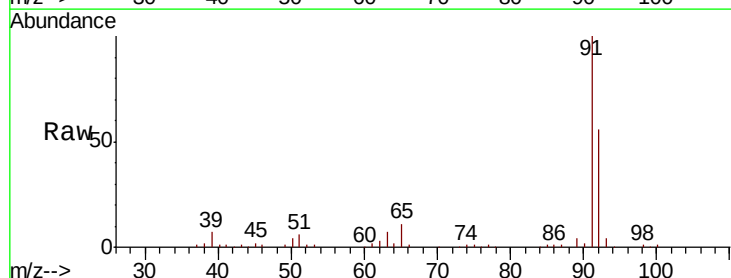
Acq: 10 Jan 2019 13:51

Tgt Ion: 92 Resp: 90051

Ion Ratio Lower Upper

92 100

91 176.0 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU028994.D (-1994) (-)

Ion 91.00 (90.70 to 91.70): VU028994.D (-1994) (-)

7.64

100000

80000

60000

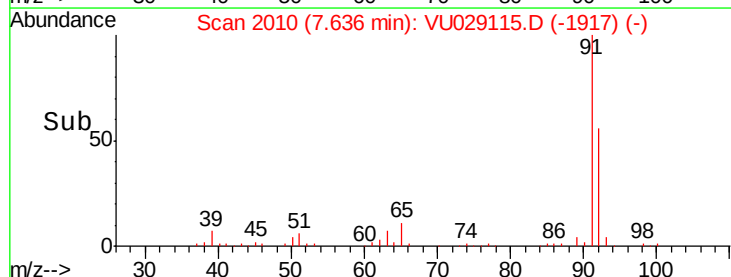
40000

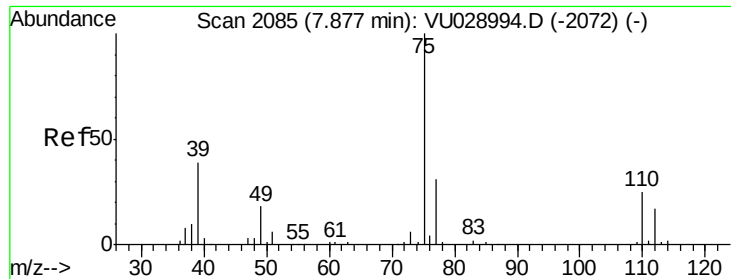
20000

0

7.55 7.60 7.65 7.70 7.75

Time-->





#53

t-1,3-Dichloropropene

Concen: 19.490 ug/l

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampled :

VU0110WBSD01

Tgt Ion: 75 Resp: 54317

Ion Ratio Lower Upper

75 100

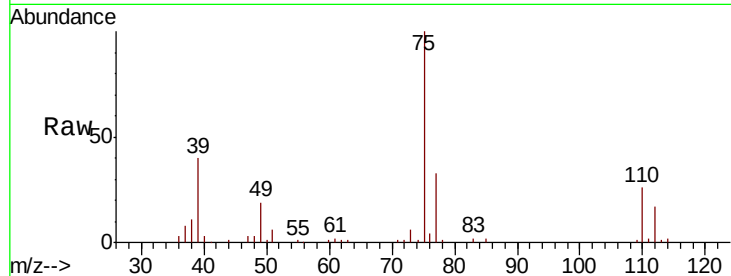
77 33.1 25.0 37.4

Manual Integrations

APPROVED

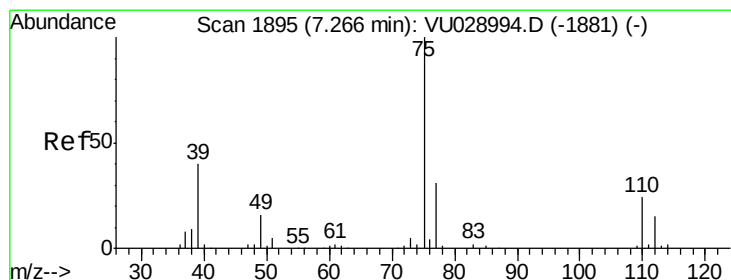
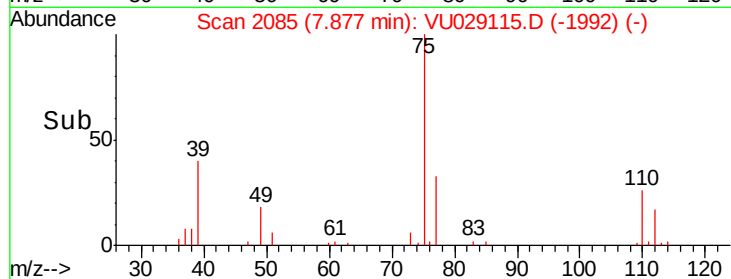
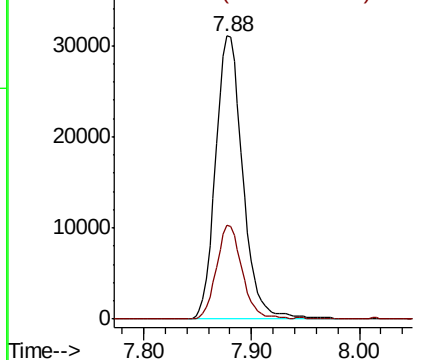
MMDadoda

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Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 19.734 ug/l

RT: 7.27 min Scan# 1895

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

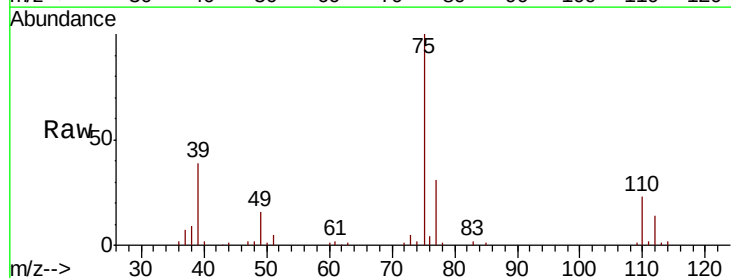
Tgt Ion: 75 Resp: 59425

Ion Ratio Lower Upper

75 100

77 31.3 25.0 37.6

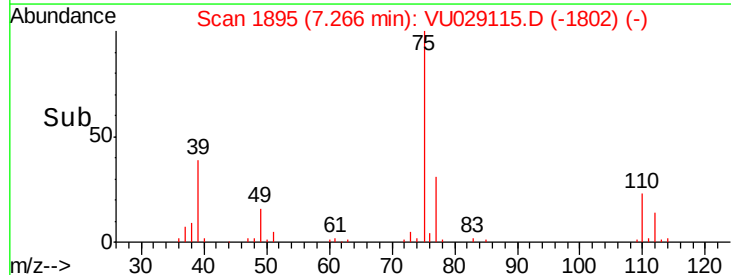
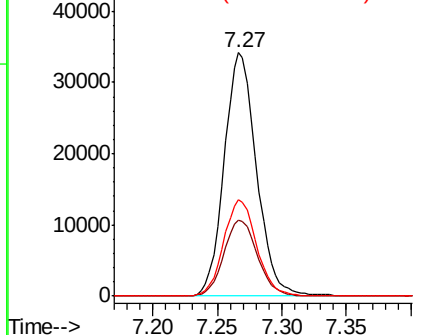
39 39.4 32.2 48.4

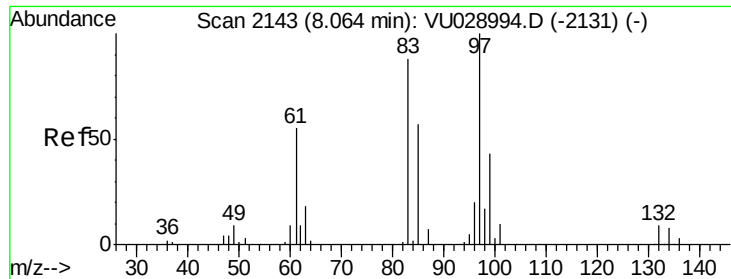


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





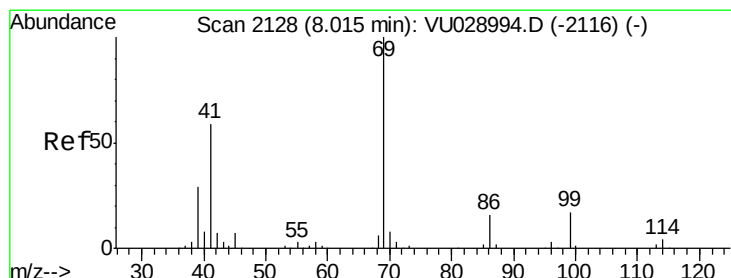
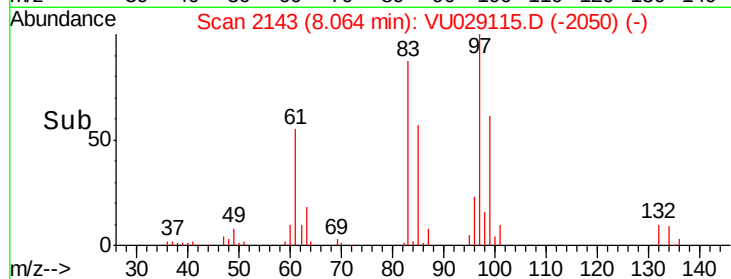
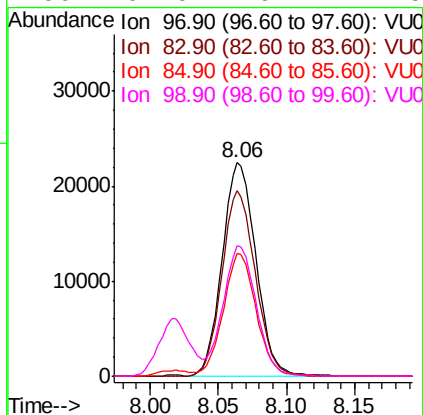
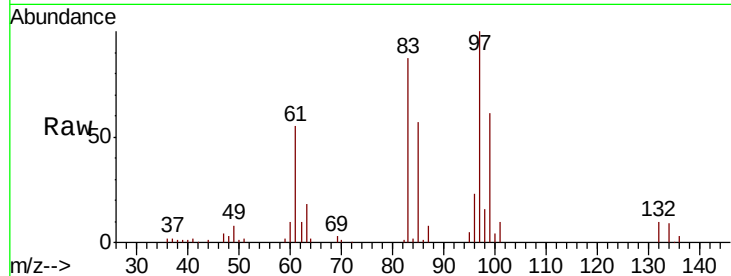
#55
1,1,2-Trichloroethane
Concen: 21.210 ug/l
RT: 8.06 min Scan# 2143
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.8	104.8
85	57.4	47.3	70.9
99	61.0	49.7	74.5

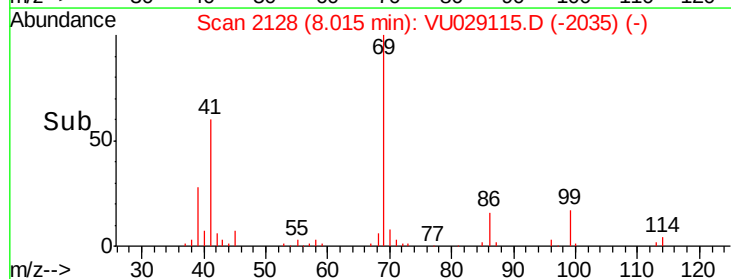
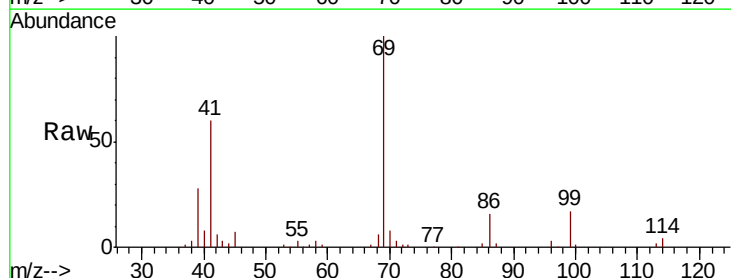
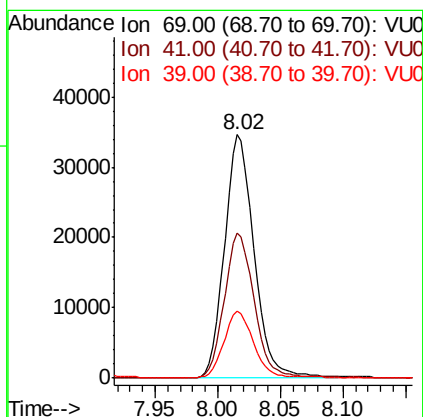
Manual Integrations
APPROVED

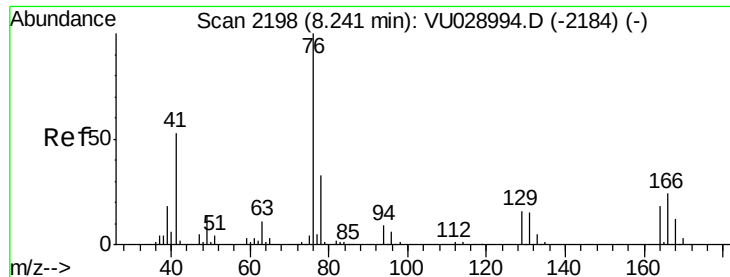
MMDadoda
1/11/2019 10:03:43 AM



#56
Ethyl methacrylate
Concen: 20.220 ug/l
RT: 8.02 min Scan# 2128
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
69	100		
41	60.6	47.5	71.3
39	28.1	22.5	33.7





#57

1,3-Dichloropropane

Concen: 20.566 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion: 76 Resp: 64058

Ion Ratio Lower Upper

76 100

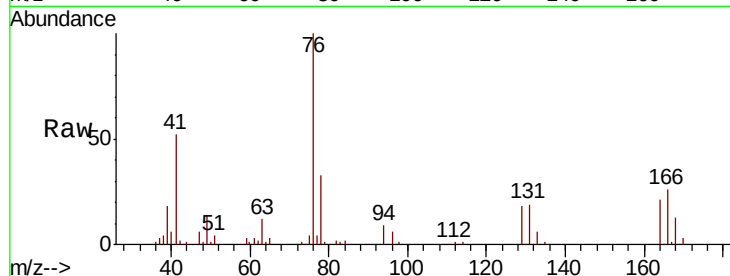
78 31.7 26.0 39.0

Manual Integrations

APPROVED

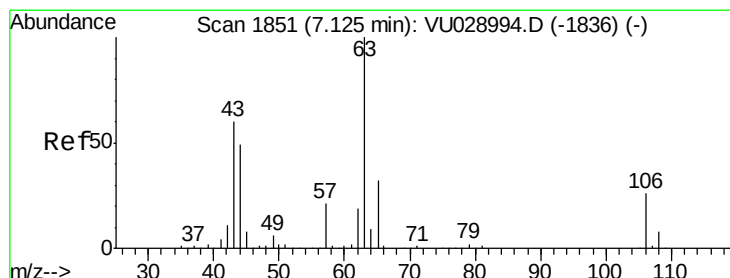
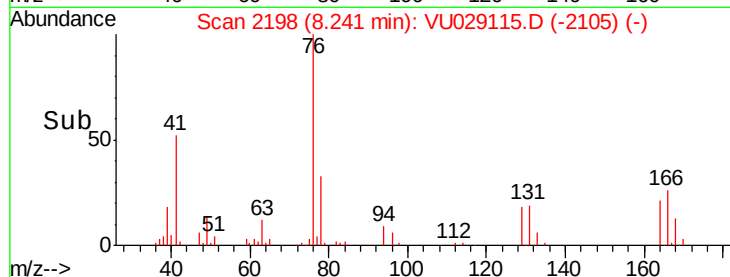
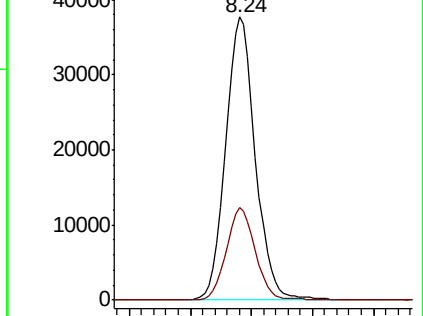
MMDadoda

1/11/2019 10:03:43 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 103.089 ug/l

RT: 7.12 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VU029115.D

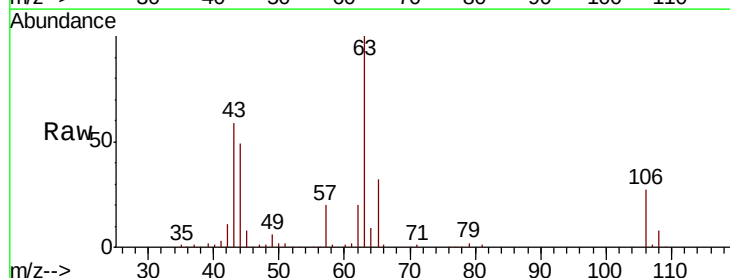
Acq: 10 Jan 2019 13:51

Tgt Ion: 63 Resp: 127144

Ion Ratio Lower Upper

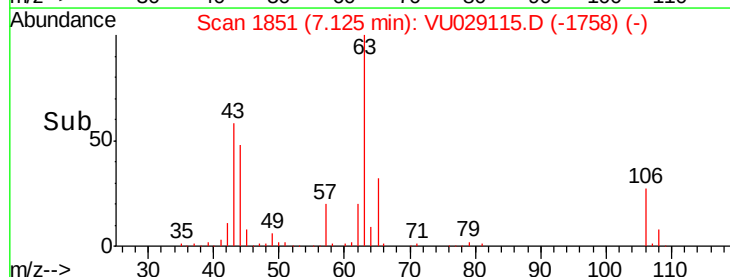
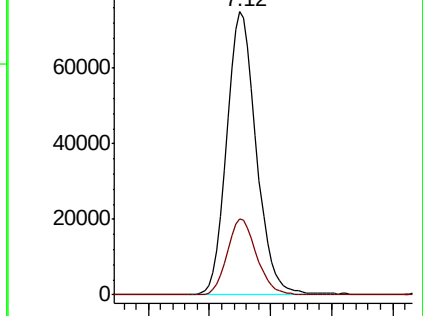
63 100

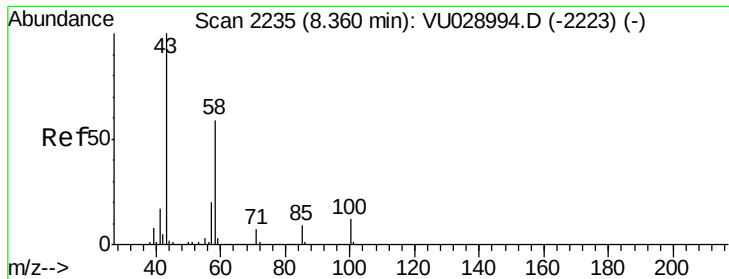
106 26.6 20.6 31.0



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





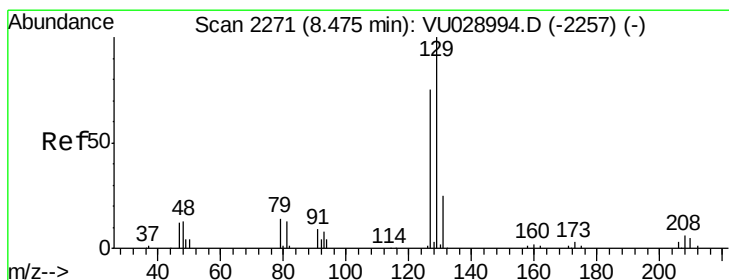
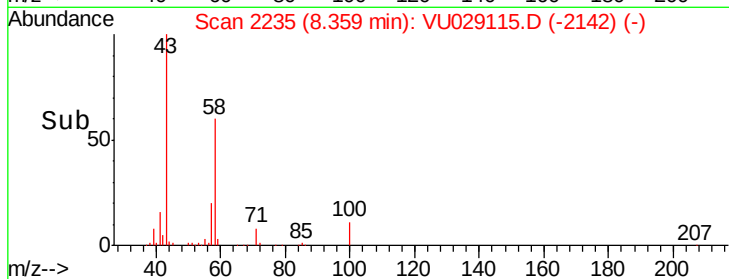
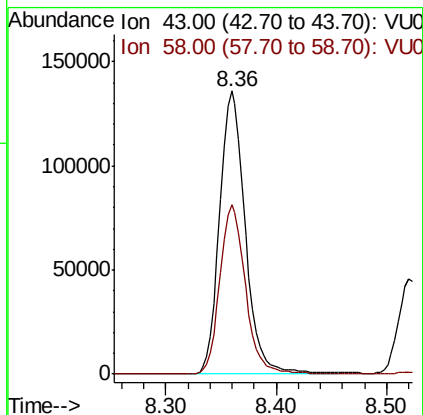
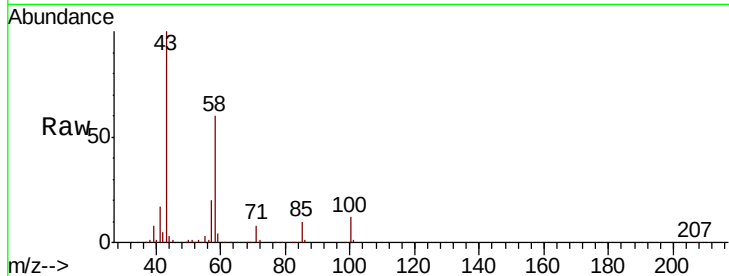
#59
2-Hexanone
Concen: 102.224 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion: 43 Resp: 220028
Ion Ratio Lower Upper
43 100
58 59.5 29.8 89.4

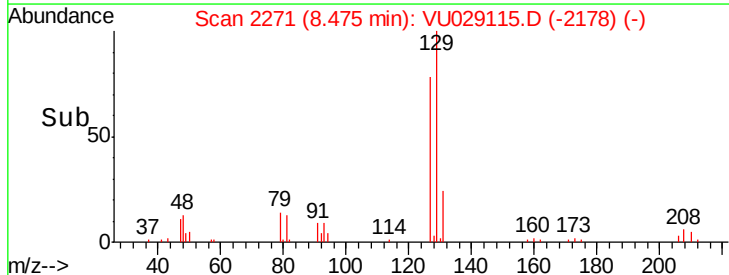
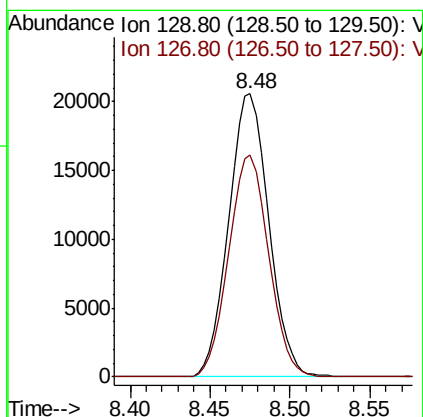
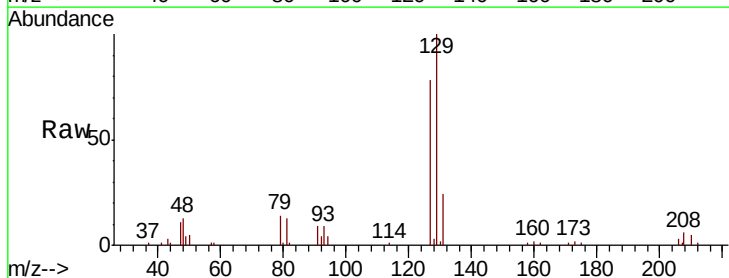
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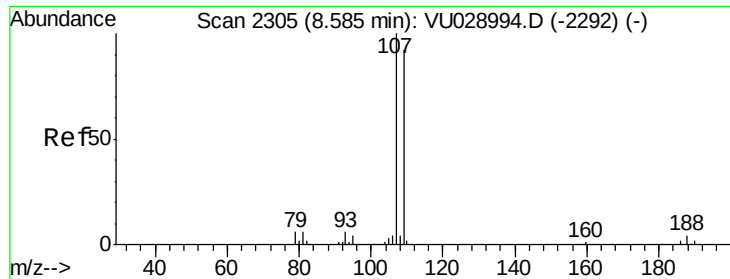
MMDadoda
1/11/2019 10:03:43 AM



#60
Dibromochloromethane
Concen: 19.499 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion: 129 Resp: 35165
Ion Ratio Lower Upper
129 100
127 78.0 38.0 114.0





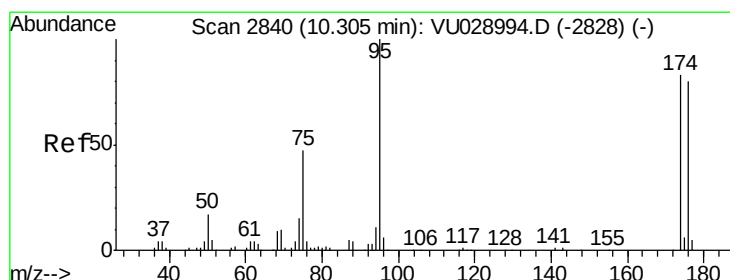
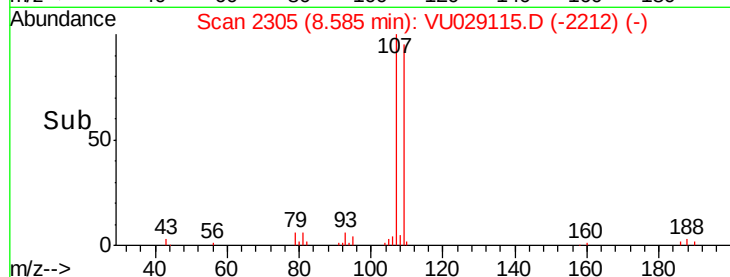
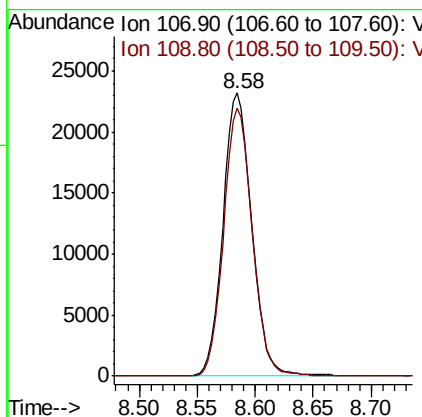
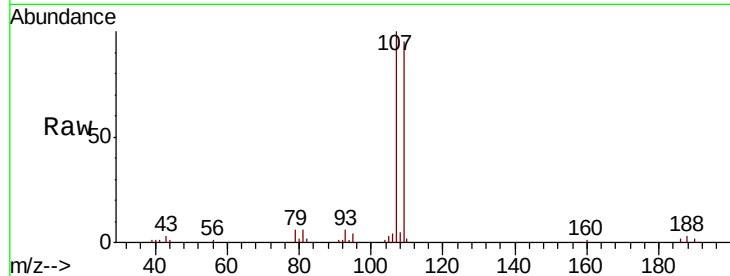
#61
1,2-Dibromoethane
Concen: 20.244 ug/l
RT: 8.58 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion: 107 Resp: 39967
Ion Ratio Lower Upper
107 100
109 93.9 75.5 113.3

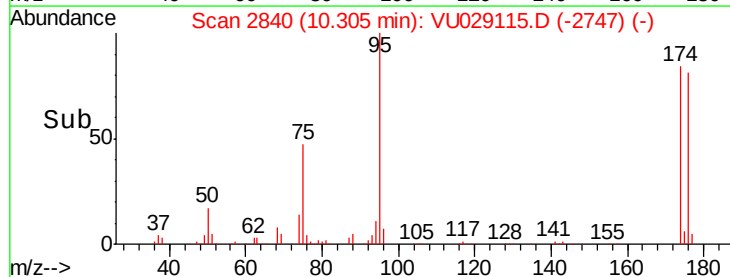
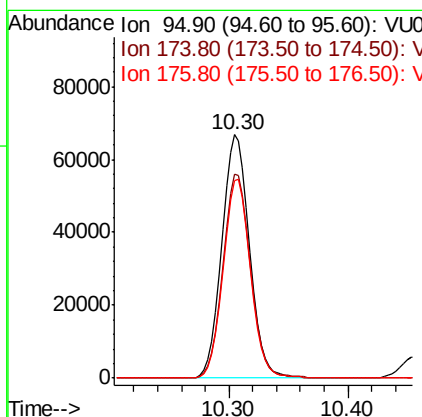
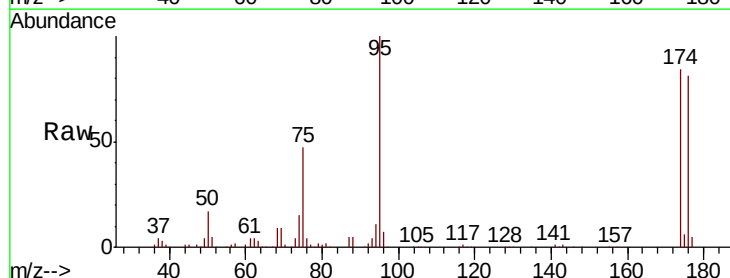
Manual Integrations
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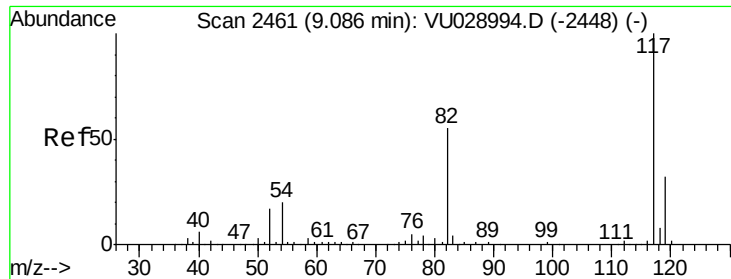
MMDadoda
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#62
4-Bromofluorobenzene
Concen: 48.764 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion: 95 Resp: 107364
Ion Ratio Lower Upper
95 100
174 83.8 0.0 170.6
176 81.2 0.0 165.0





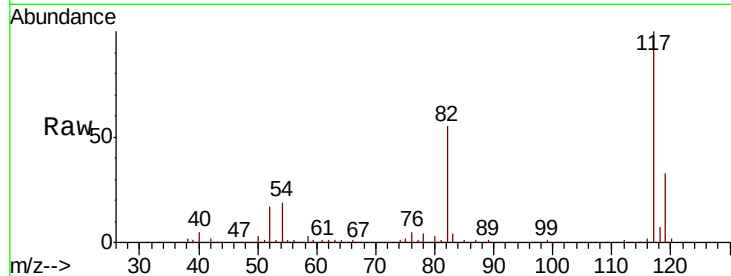
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampled :
VU0110WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	221509		
82	55.0	43.9	65.9	
119	32.8	26.0	39.0	

Manual Integrations
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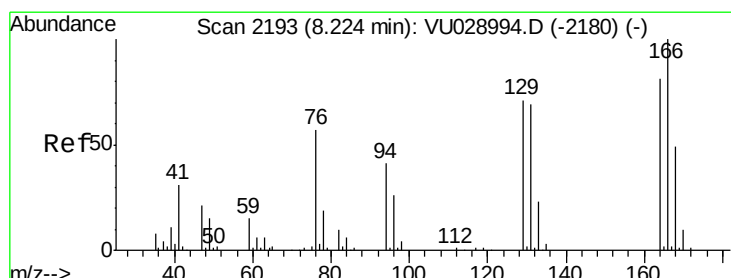
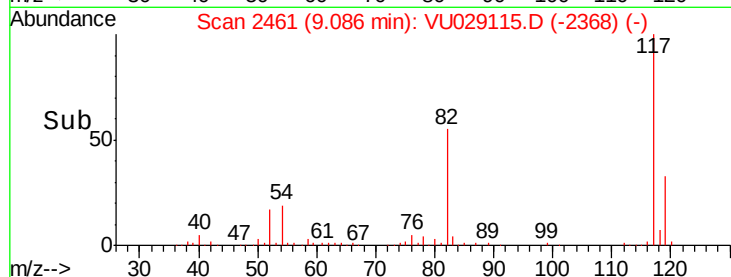
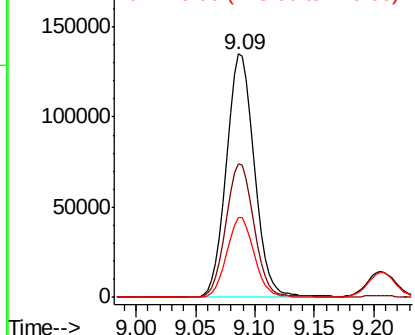


Abundance

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: 19.715 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	31458		
166	124.6	99.4	149.0	
129	93.0	70.5	105.7	
131	86.9	69.0	103.6	

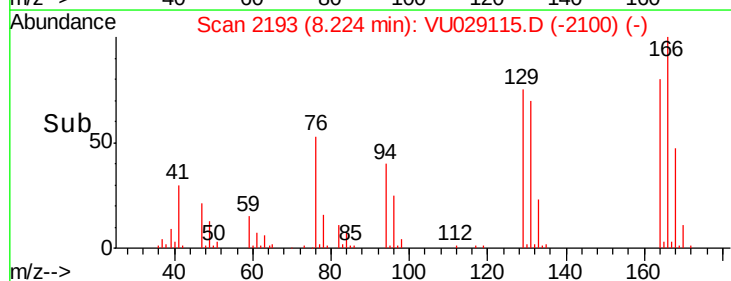
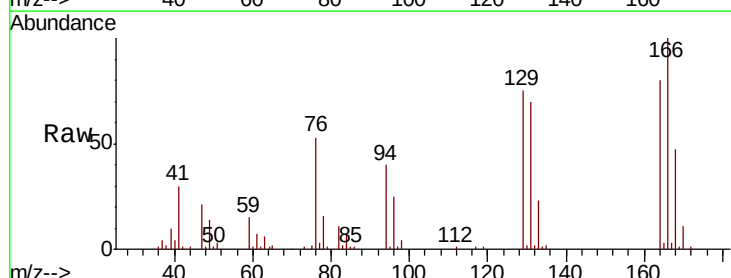
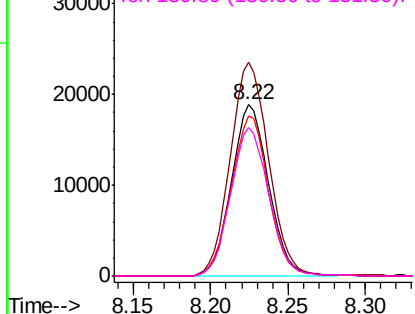
Abundance

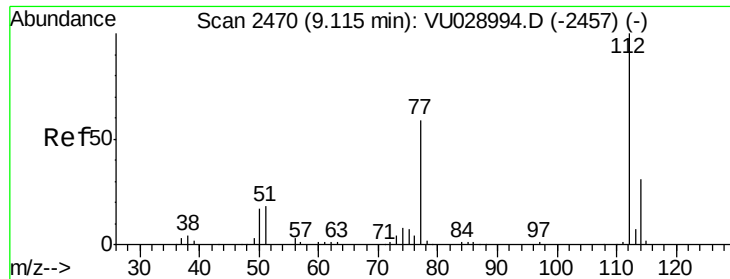
Ion 163.80 (163.50 to 164.50): V

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





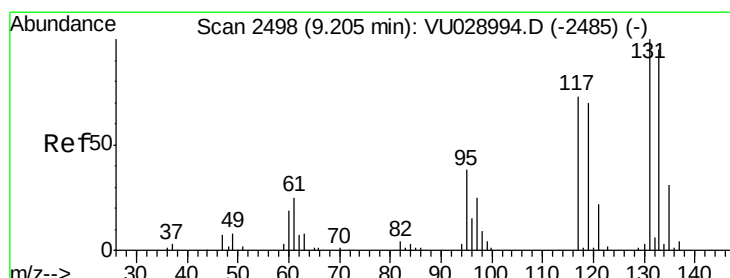
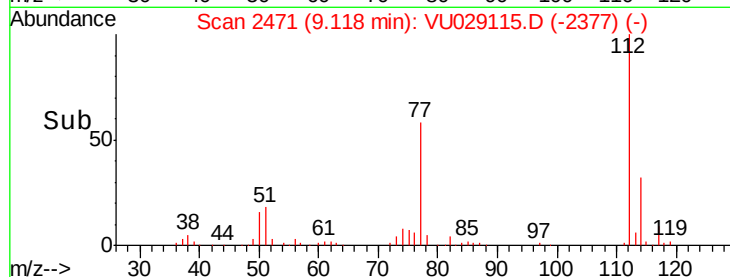
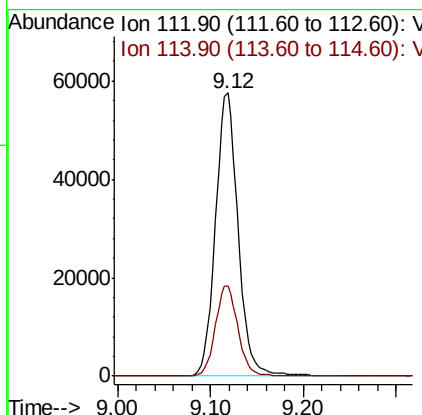
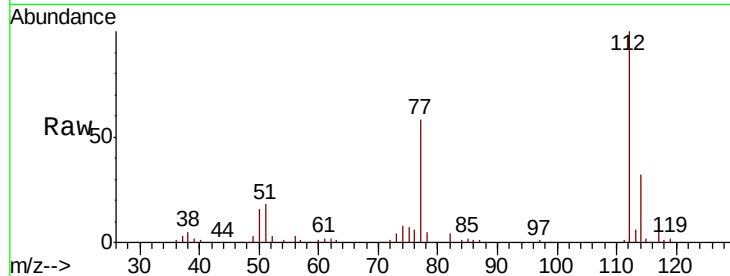
#65
Chlorobenzene
Concen: 19.614 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion:112 Resp: 97387
Ion Ratio Lower Upper
112 100
114 31.7 25.0 37.6

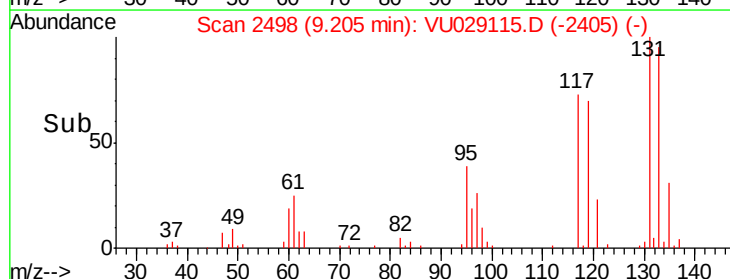
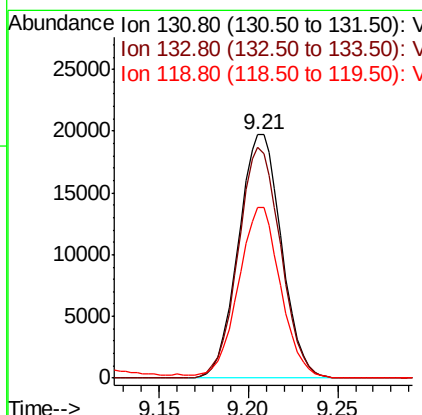
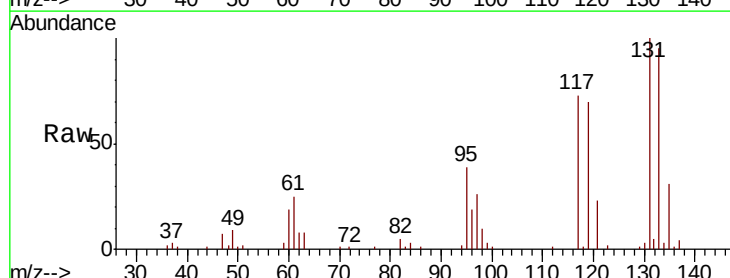
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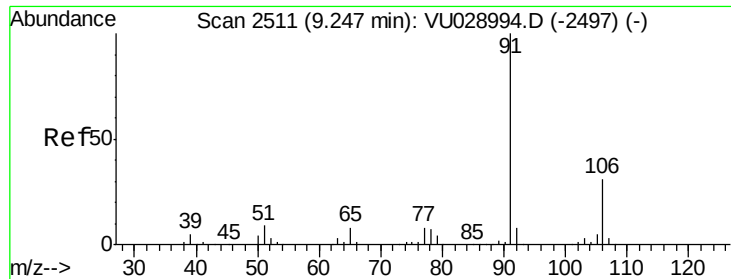
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.611 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion:131 Resp: 33211
Ion Ratio Lower Upper
131 100
133 93.9 48.2 144.6
119 69.3 35.4 106.3





#67

Ethyl Benzene

Concen: 20.219 ug/l

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion: 91 Resp: 167612

Ion Ratio Lower Upper

91 100

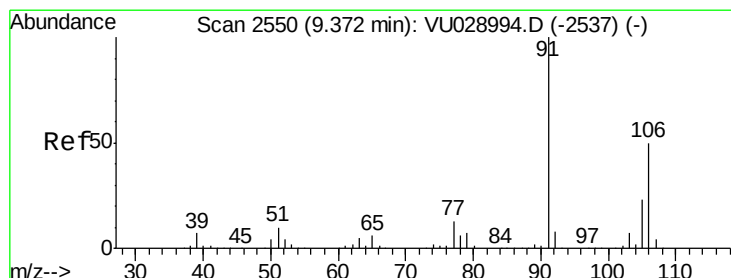
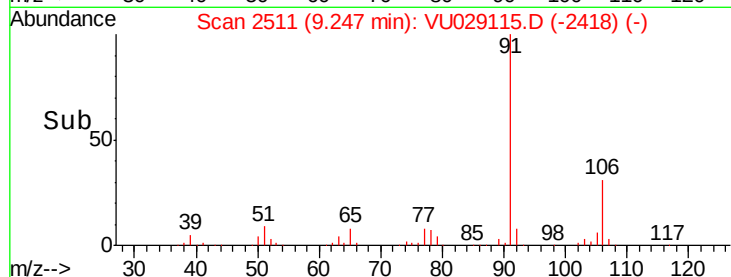
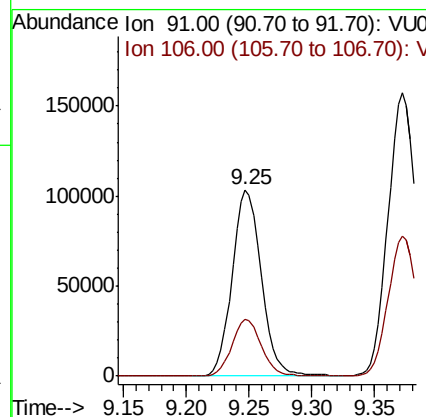
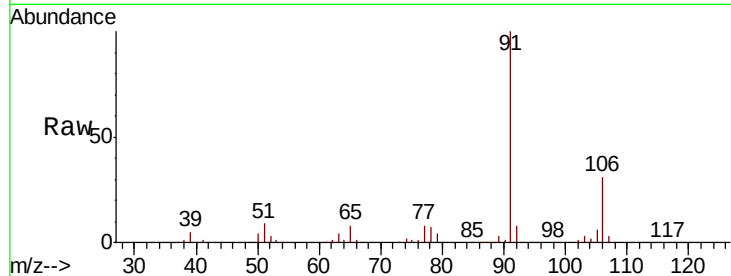
106 30.7 25.0 37.4

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#68

m/p-Xylenes

Concen: 40.360 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU029115.D

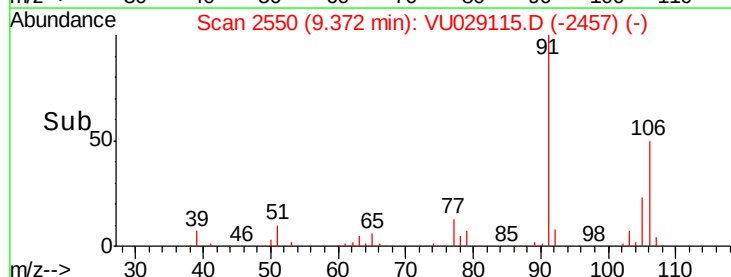
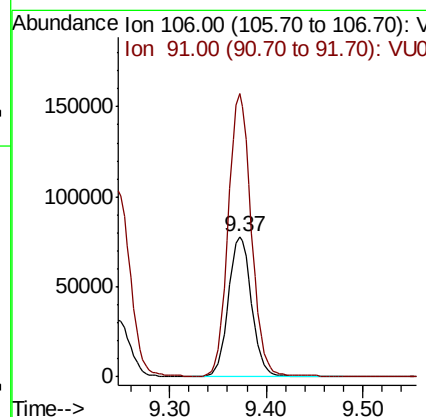
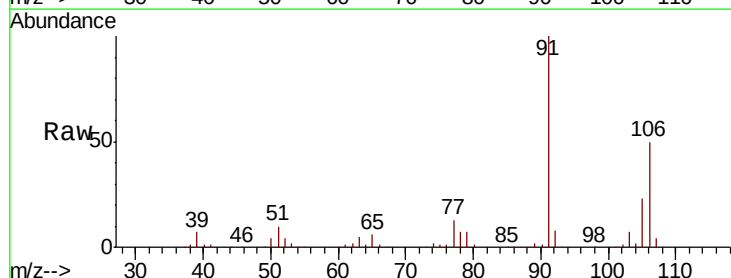
Acq: 10 Jan 2019 13:51

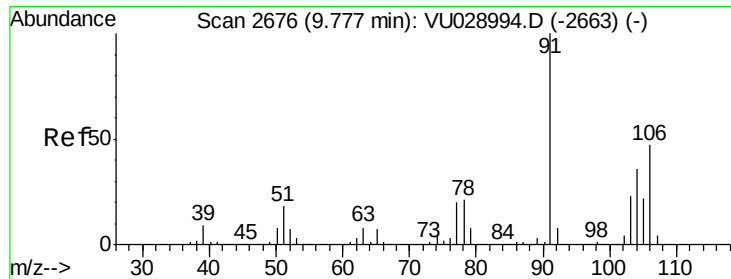
Tgt Ion: 106 Resp: 129997

Ion Ratio Lower Upper

106 100

91 198.4 161.7 242.5





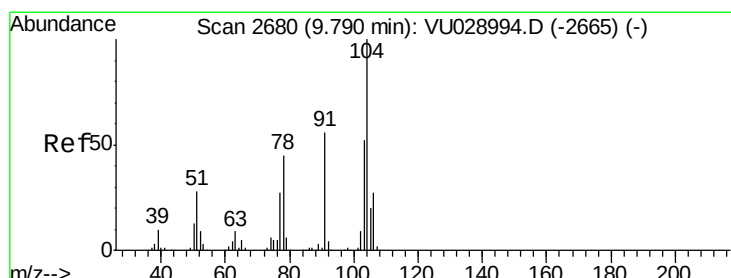
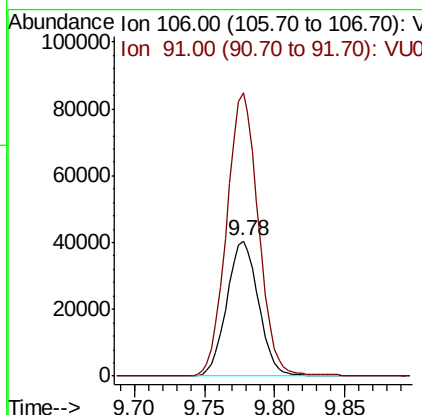
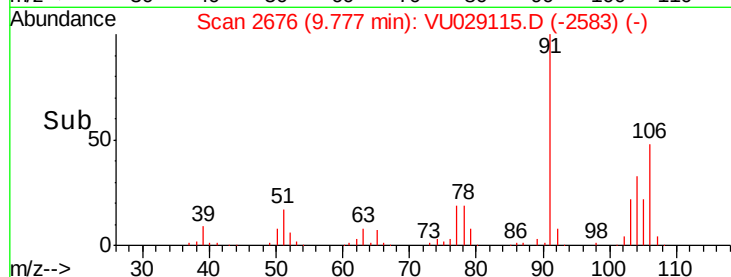
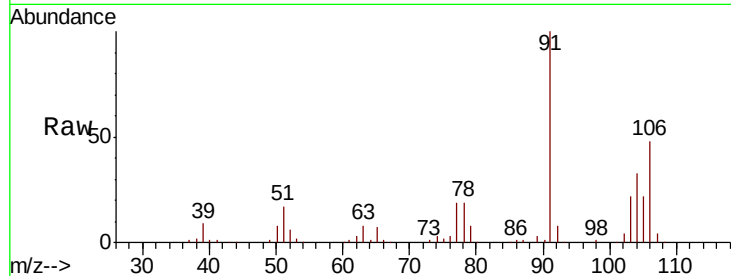
#69
o-Xylene
Concen: 20.657 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion:106 Resp: 64109
Ion Ratio Lower Upper
106 100
91 208.8 106.1 318.3

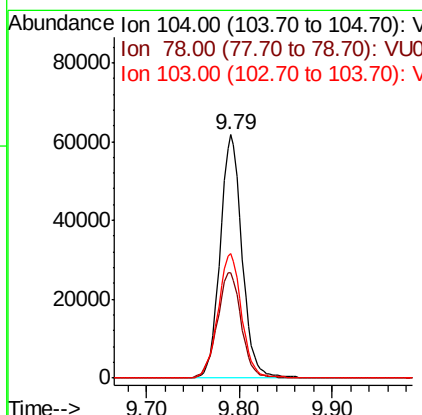
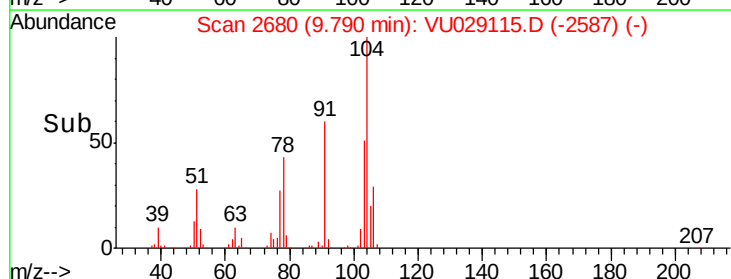
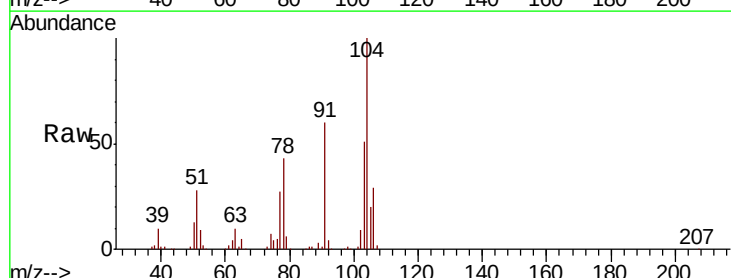
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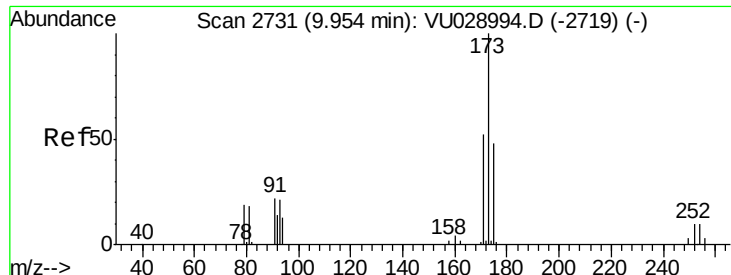
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#70
Styrene
Concen: 19.831 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion:104 Resp: 100893
Ion Ratio Lower Upper
104 100
78 47.6 38.6 58.0
103 55.3 44.5 66.7





#71

Bromoform

Concen: 19.480 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion:173 Resp: 27948

Ion Ratio Lower Upper

173 100

175 48.0 23.8 71.2

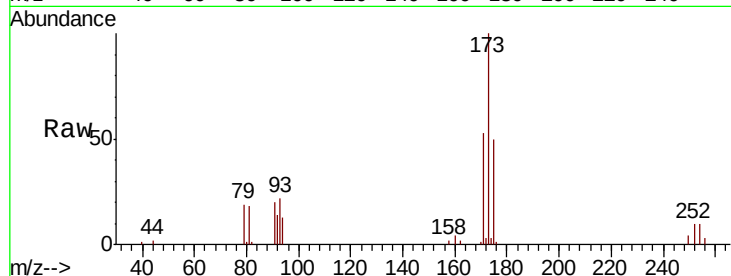
254 0.0 0.0 0.0

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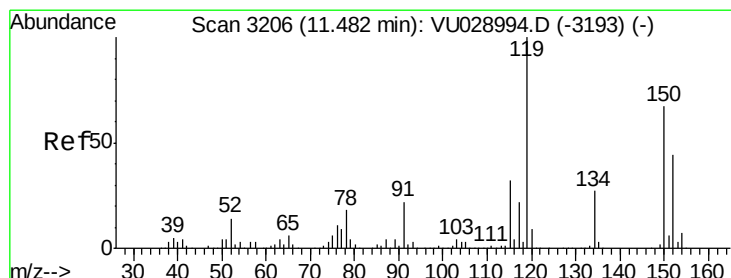
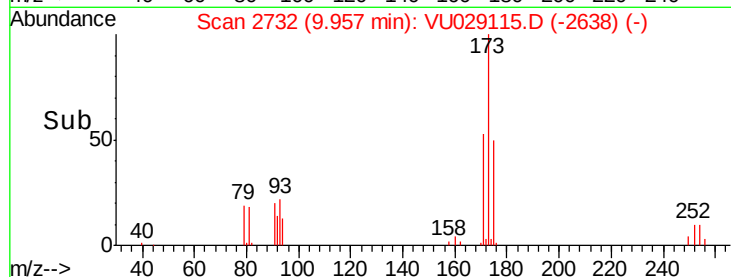
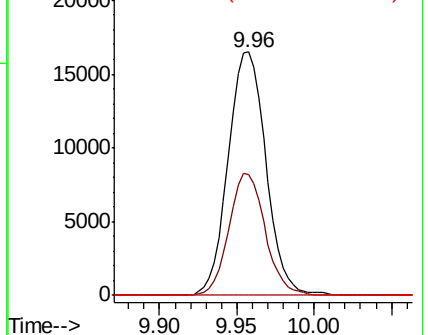
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

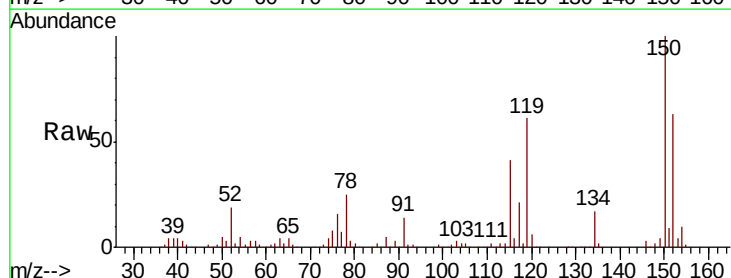
Tgt Ion:152 Resp: 106355

Ion Ratio Lower Upper

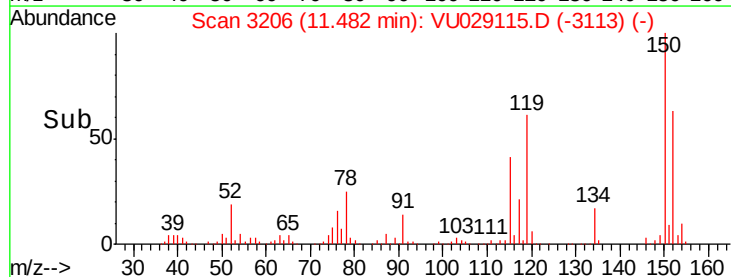
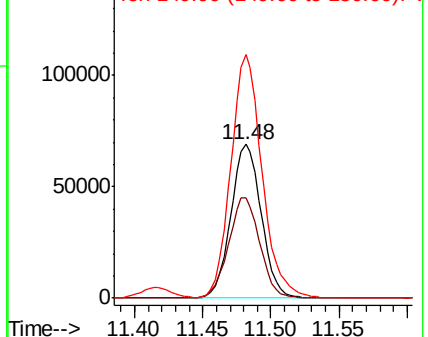
152 100

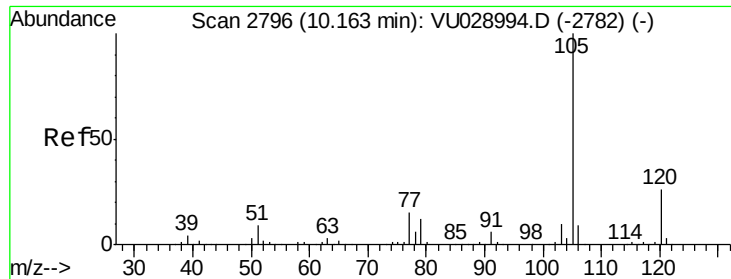
115 67.2 40.1 120.3

150 162.7 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





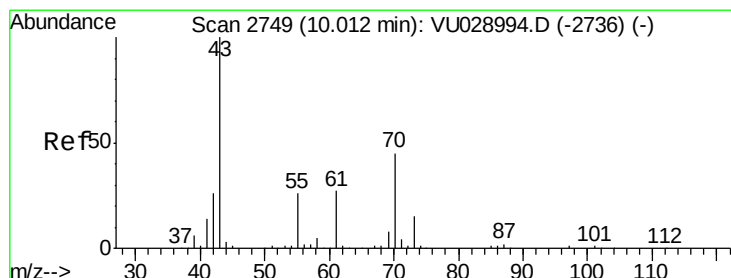
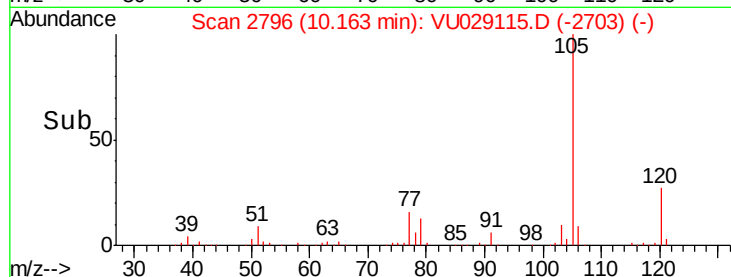
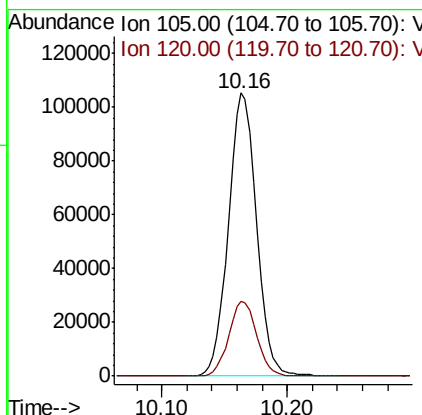
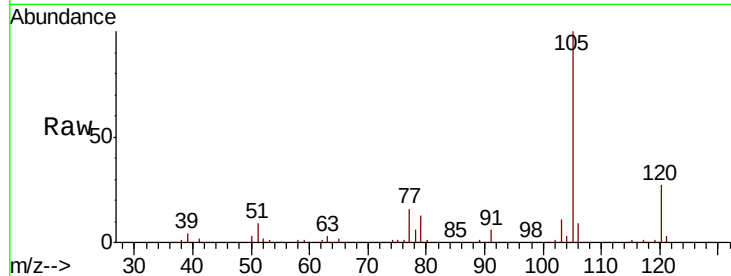
#73
Isopropylbenzene
Concen: 20.765 ug/l
RT: 10.16 min Scan# 2796
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion: 105 Resp: 163467
Ion Ratio Lower Upper
105 100
120 26.4 13.2 39.5

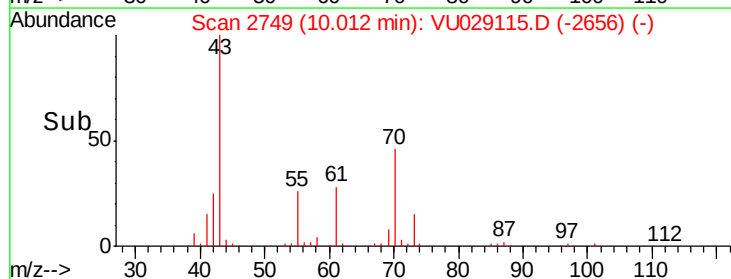
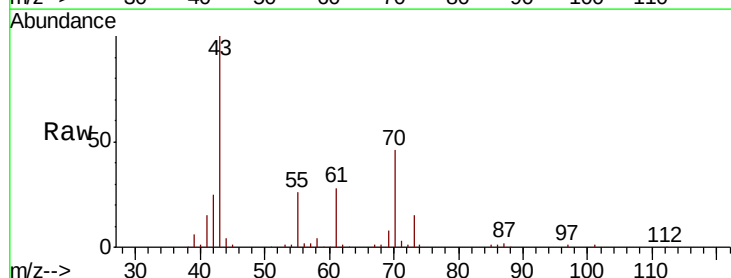
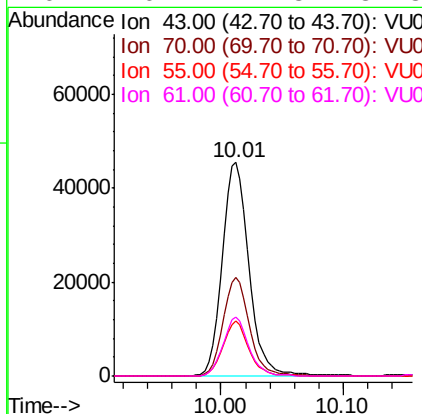
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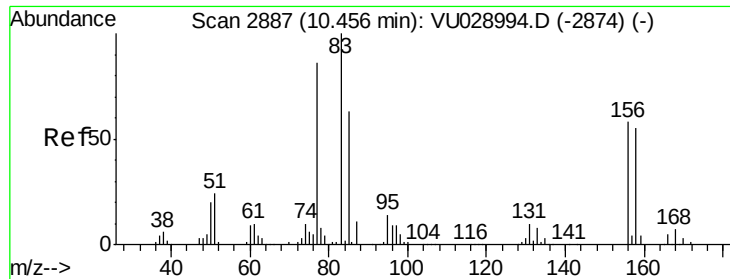
MMDadoda
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#74
N-ethyl acetate
Concen: 20.741 ug/l
RT: 10.01 min Scan# 2749
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion: 43 Resp: 70359
Ion Ratio Lower Upper
43 100
70 45.1 36.3 54.5
55 24.9 20.5 30.7
61 26.4 21.8 32.8





#75

1,1,2,2-Tetrachloroethane

Concen: 20.430 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

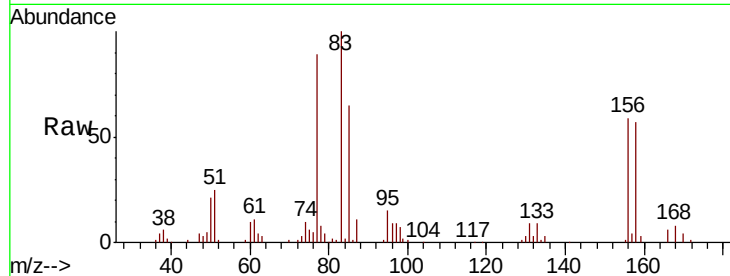
ClientSampleId :

VU0110WBSD01

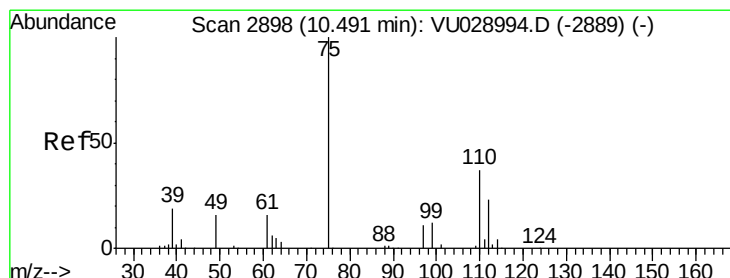
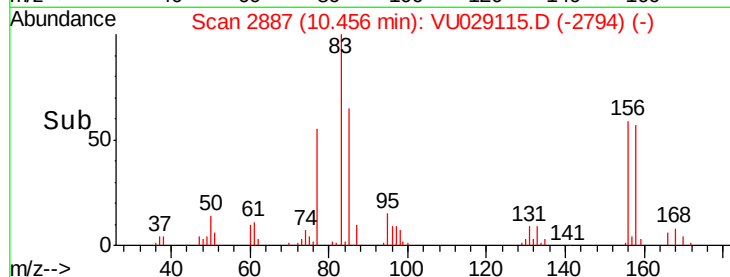
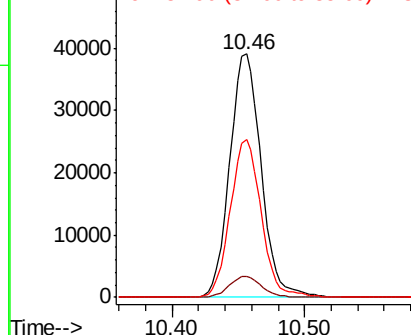
Tgt Ion:	83	Resp:	64456
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.7	14.1
85	63.9	32.0	96.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VU0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VU0



#76

1,2,3-Trichloropropane

Concen: 21.409 ug/l m

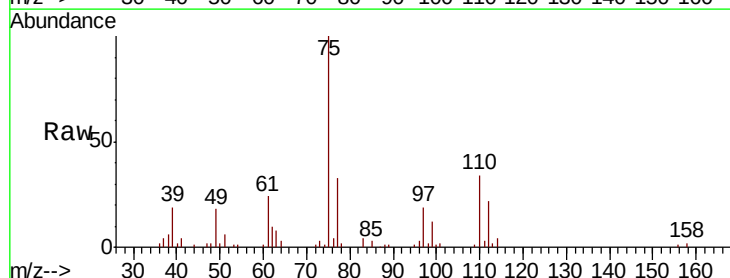
RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

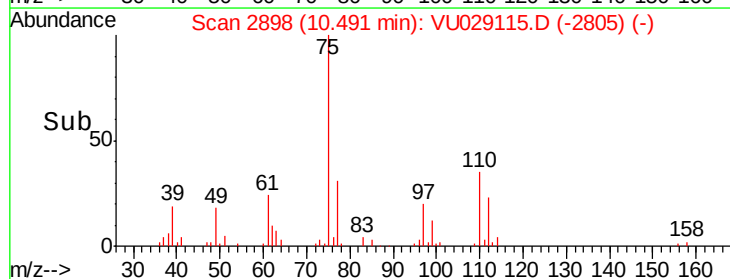
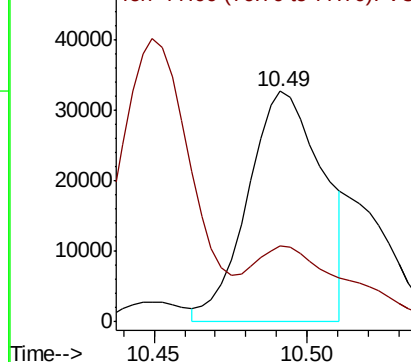
Lab File: VU029115.D

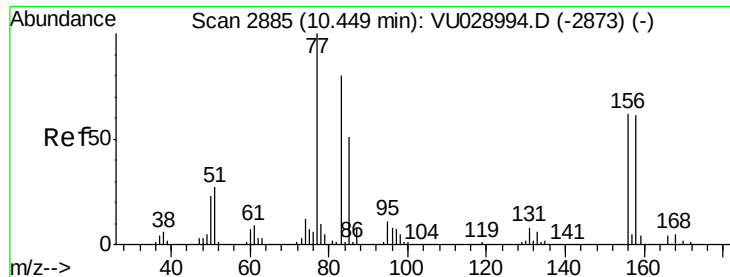
Acq: 10 Jan 2019 13:51

Tgt Ion:	75	Resp:	55789
Ion Ratio	Lower	Upper	
75	100		
77	41.2	20.9	62.8



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0





#77

Bromobenzene

Concen: 20.135 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

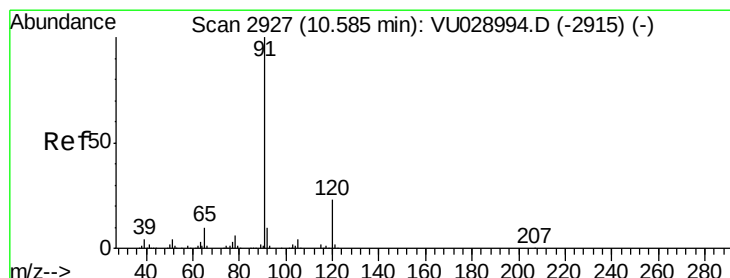
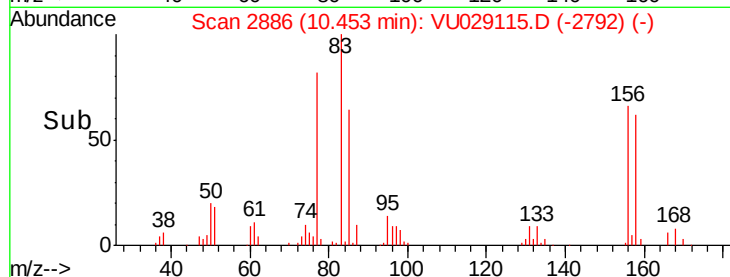
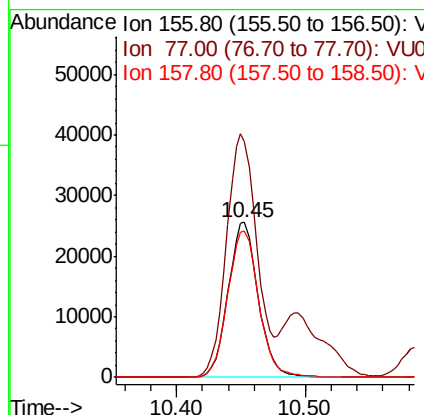
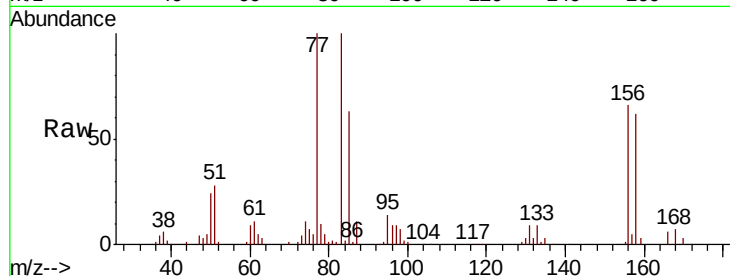
ClientSampleId :

VU0110WBSD01

Tgt Ion:156 Resp: 41307
 Ion Ratio Lower Upper
 156 100
 77 158.5 79.0 237.2
 158 97.8 48.9 146.6

Manual Integrations
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#78

n-propylbenzene

Concen: 20.770 ug/l

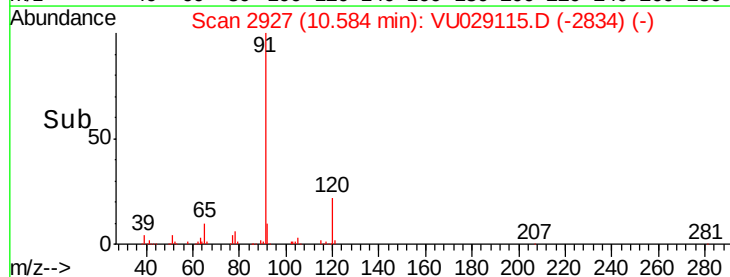
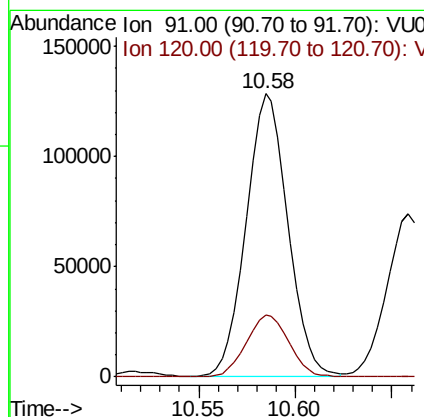
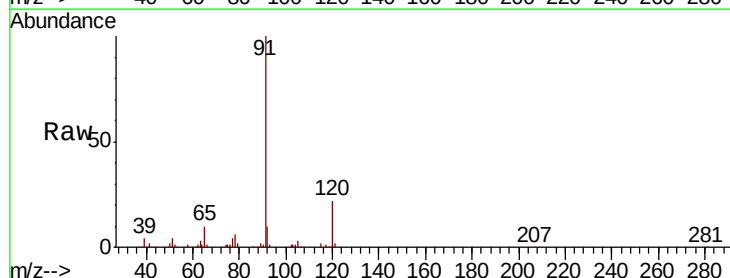
RT: 10.58 min Scan# 2927

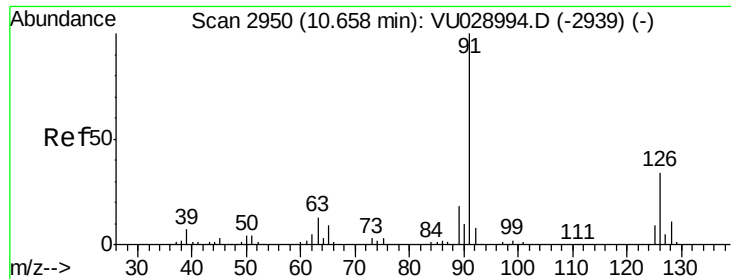
Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Tgt Ion: 91 Resp: 192688
 Ion Ratio Lower Upper
 91 100
 120 22.4 11.3 33.9





#79

2-Chlorotoluene

Concen: 20.732 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. -0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

ClientSampleId :

VU0110WBSD01

Tgt Ion: 91 Resp: 116675

Ion Ratio Lower Upper

91 100

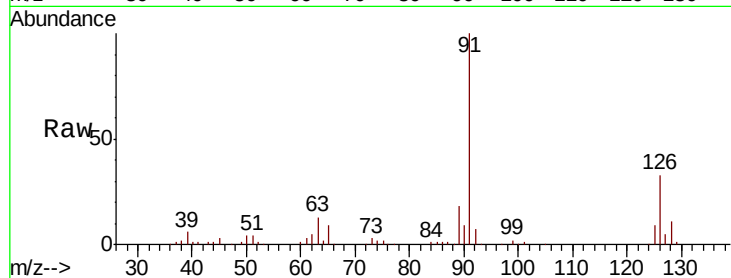
126 33.5 16.8 50.4

Manual Integrations

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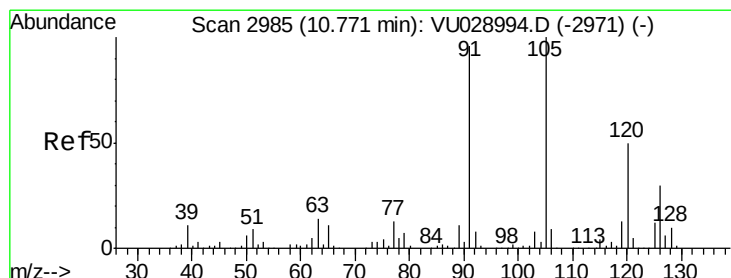
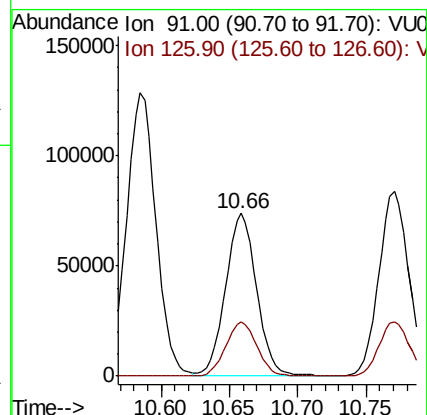
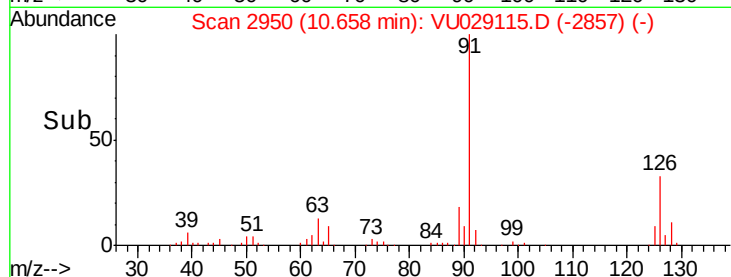
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Abundance Ion 91.00 (90.70 to 91.70): VU028994.D (-2939) (-)

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



#80

1,3,5-Trimethylbenzene

Concen: 20.840 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU029115.D

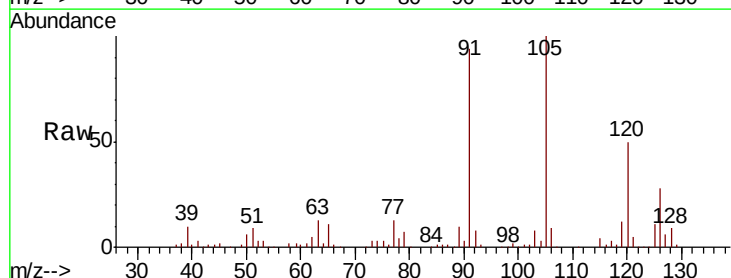
Acq: 10 Jan 2019 13:51

Tgt Ion: 105 Resp: 137000

Ion Ratio Lower Upper

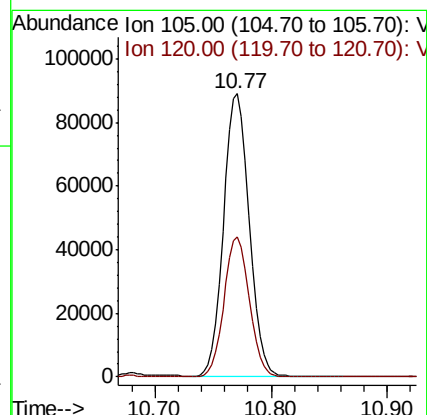
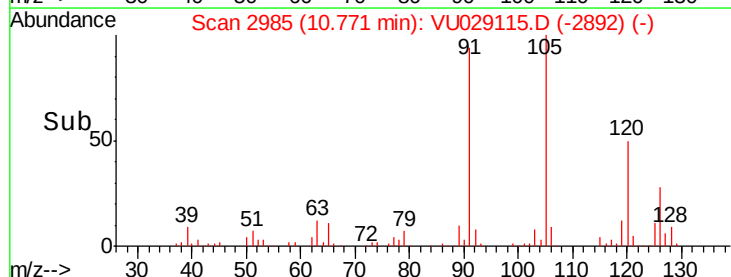
105 100

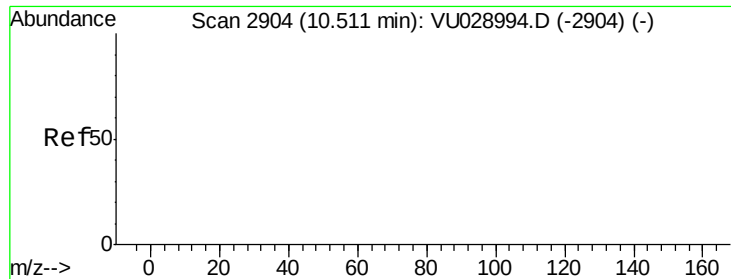
120 48.9 24.8 74.4



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

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





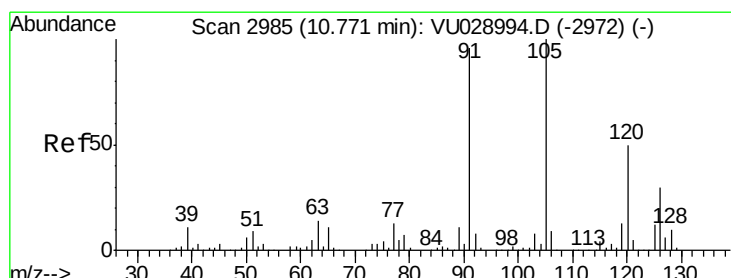
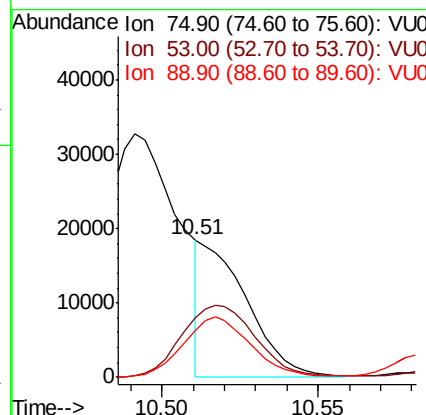
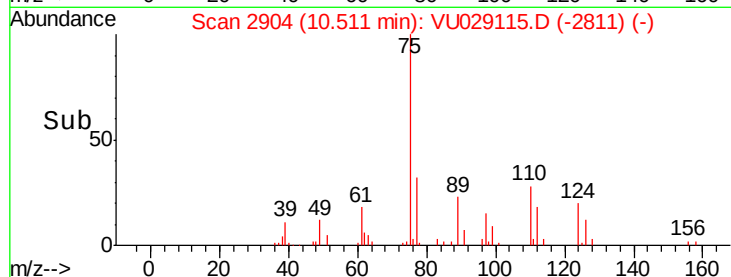
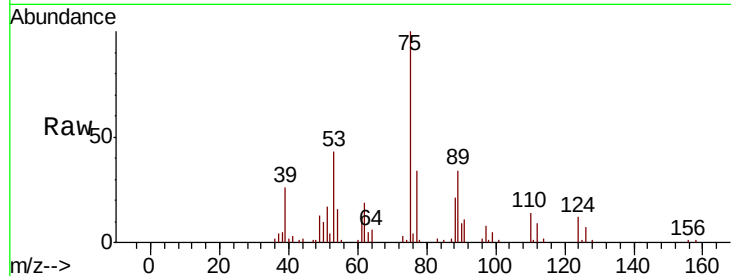
#81
trans-1,4-Dichloro-2-butene
Concen: 18.766 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion: 75 Resp: 18961
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0

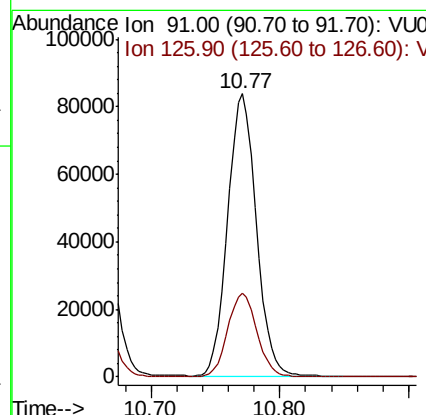
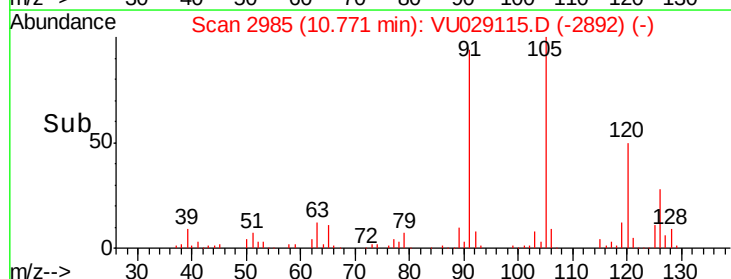
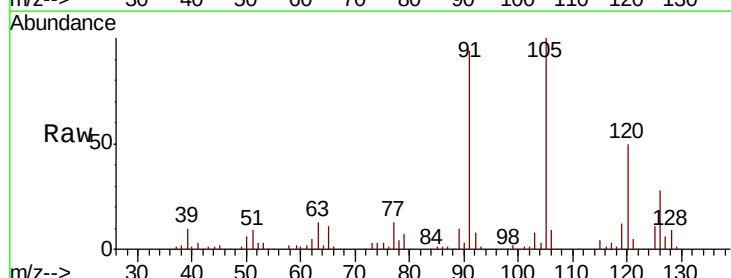
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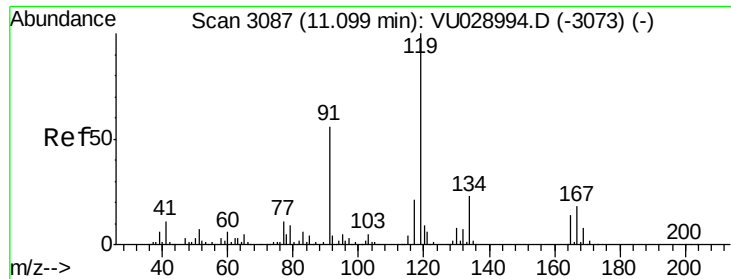
MMDadoda
1/11/2019 10:03:43 AM



#82
4-Chlorotoluene
Concen: 19.994 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion: 91 Resp: 129024
Ion Ratio Lower Upper
91 100
126 30.2 15.5 46.5





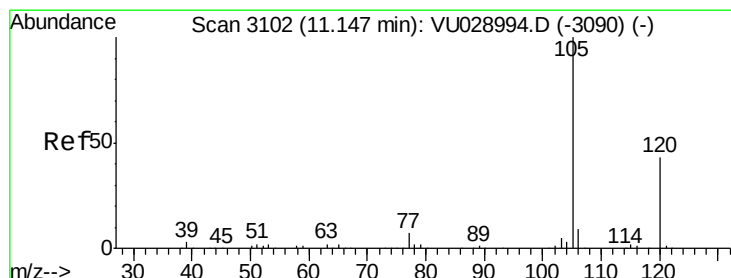
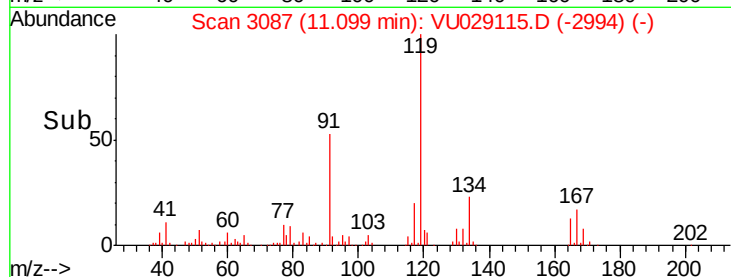
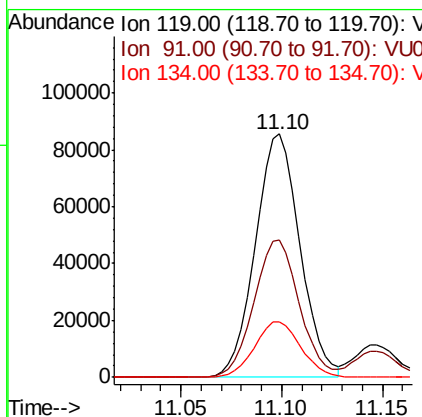
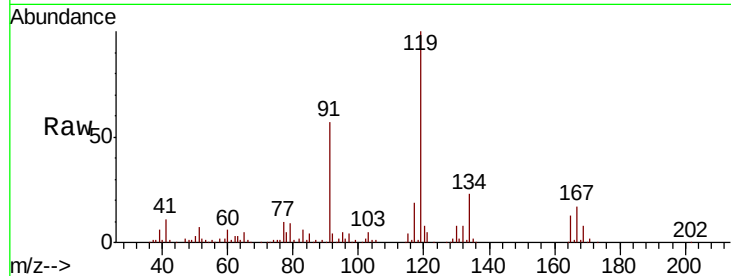
#83
 tert-Butylbenzene
 Concen: 20.475 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	132667		
91	57.3	28.2	84.6	
134	23.4	11.3	33.8	

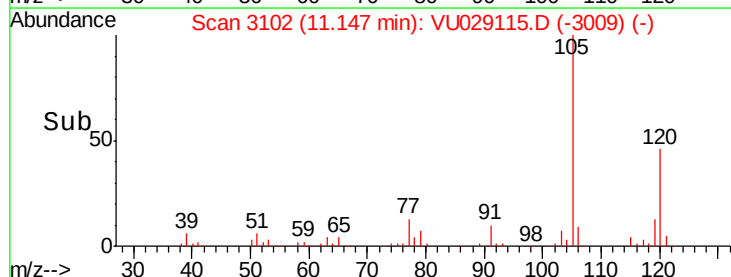
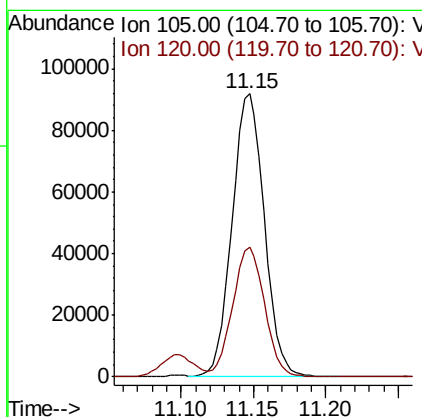
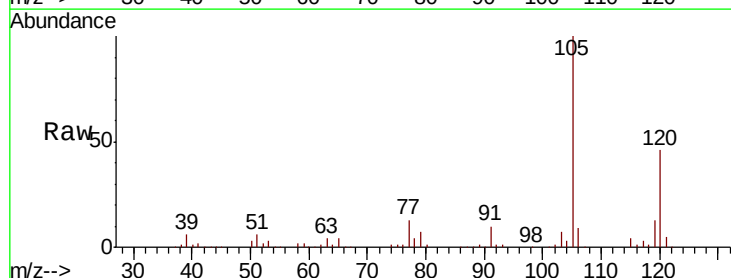
Manual Integrations
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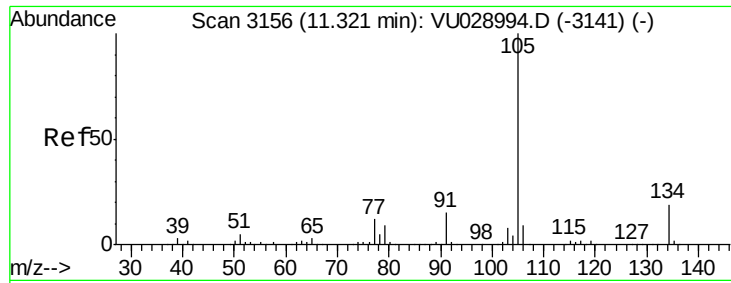
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.504 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	141137		
120	45.8	23.1	69.3	





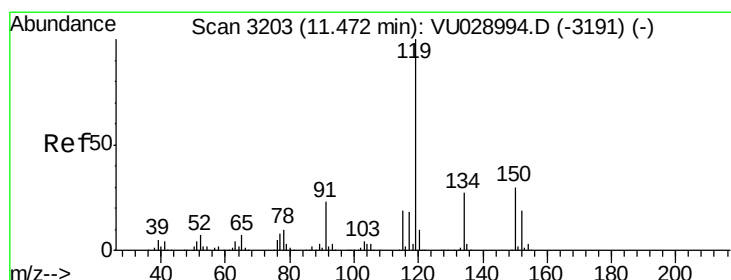
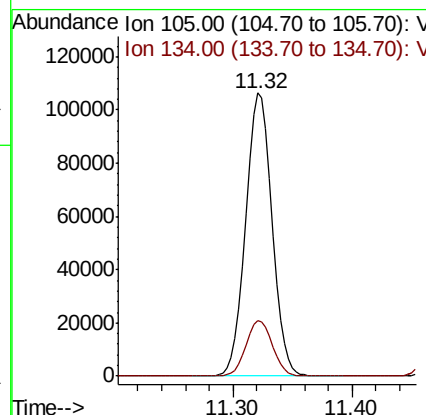
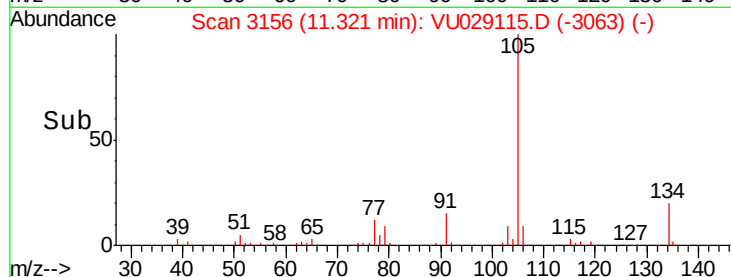
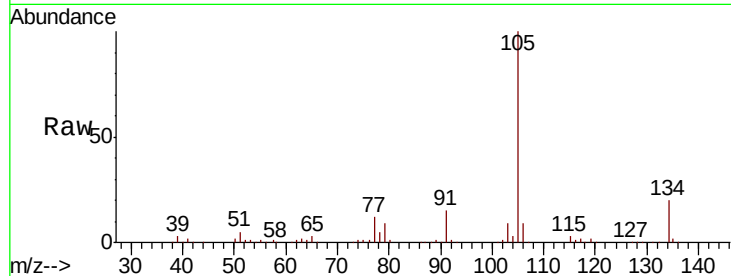
#85
 sec-Butylbenzene
 Concen: 20.870 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

Tgt Ion:105 Resp: 163541
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.7 29.1

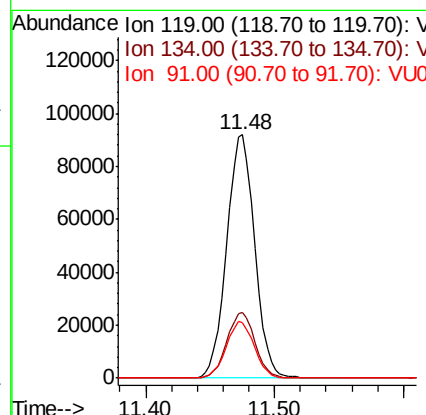
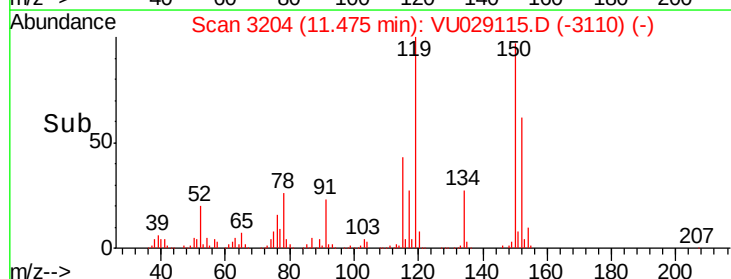
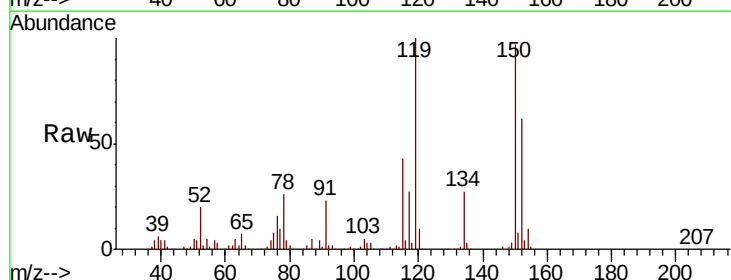
Manual Integrations
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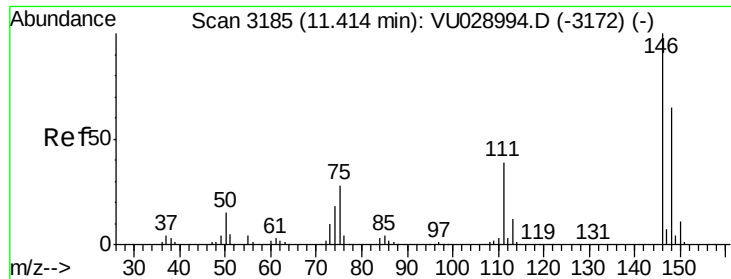
MMDadoda
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#86
 p-Isopropyltoluene
 Concen: 20.615 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion:119 Resp: 137655
 Ion Ratio Lower Upper
 119 100
 134 27.3 13.5 40.4
 91 23.5 11.3 33.8





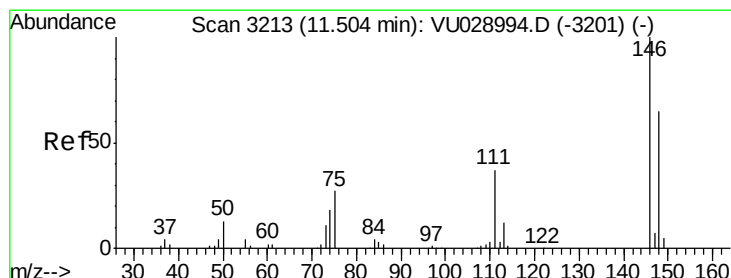
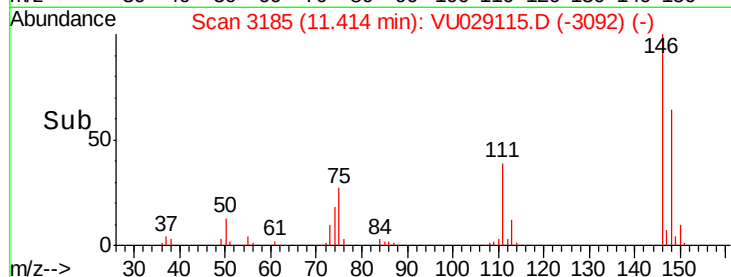
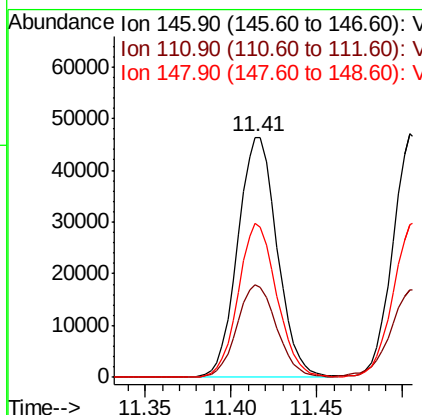
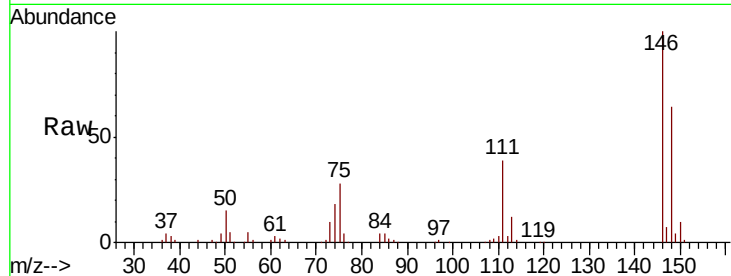
#87
 1,3-Dichlorobenzene
 Concen: 19.733 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.3	57.8
148	62.3	32.5	97.5

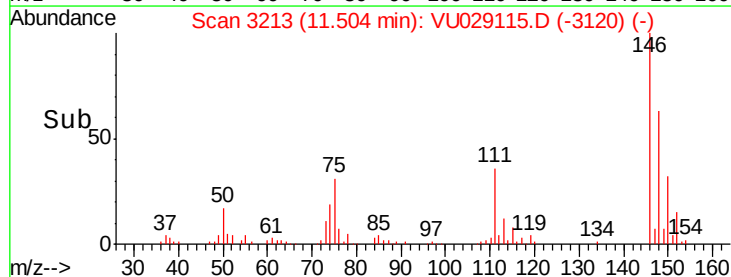
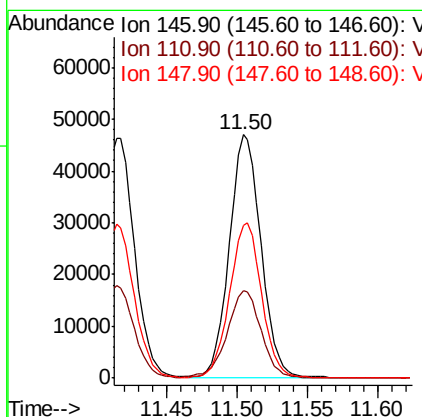
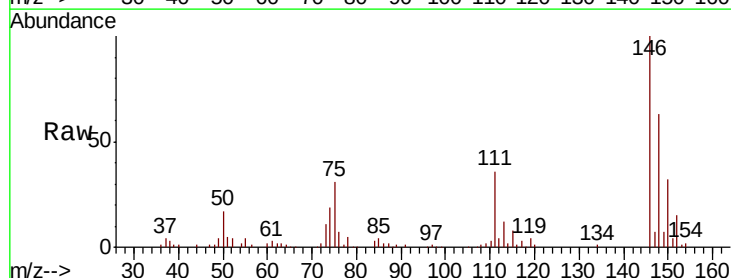
Manual Integrations
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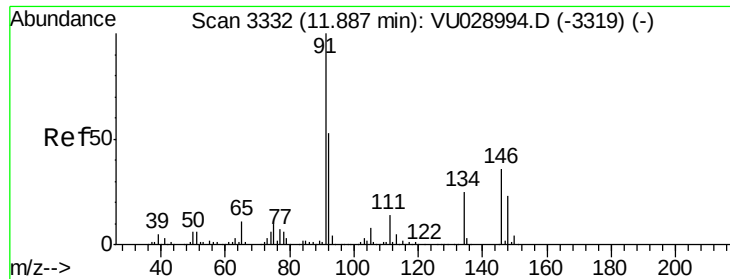
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#88
 1,4-Dichlorobenzene
 Concen: 18.960 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.1	57.3
148	64.3	32.6	98.0





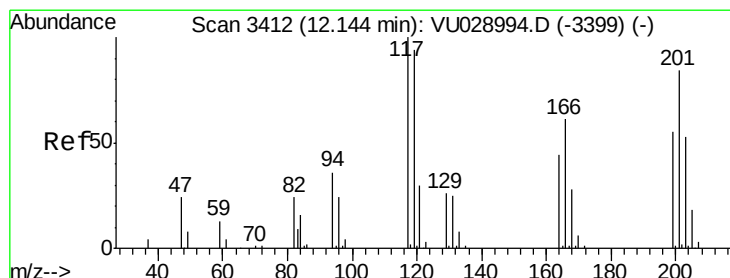
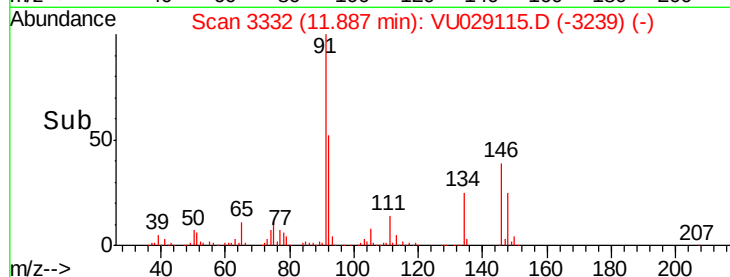
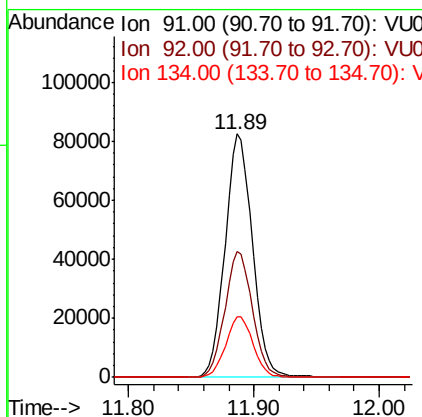
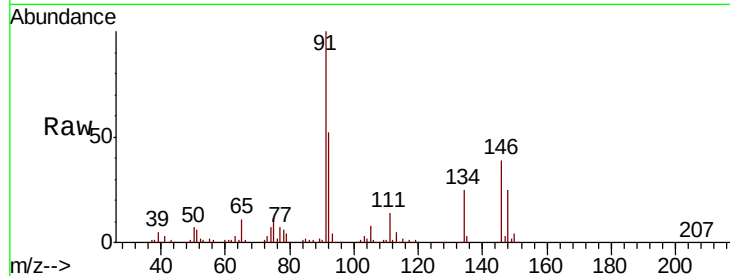
#89
n-Butylbenzene
Concen: 20.942 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Instrument :
MSVOA_U
ClientSampleId :
VU0110WBSD01

Tgt Ion: 91 Resp: 124807
Ion Ratio Lower Upper
91 100
92 52.1 26.2 78.5
134 25.0 12.6 37.6

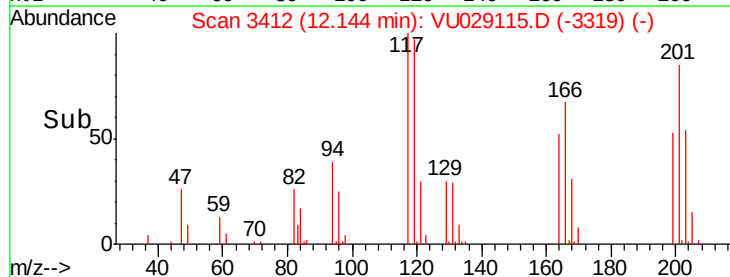
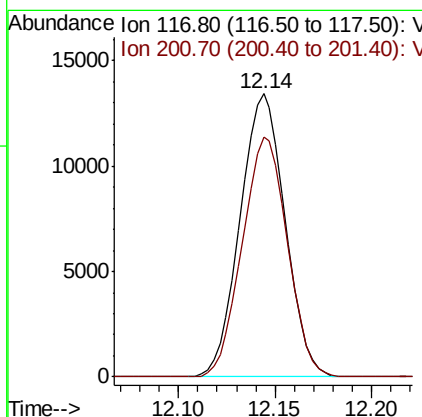
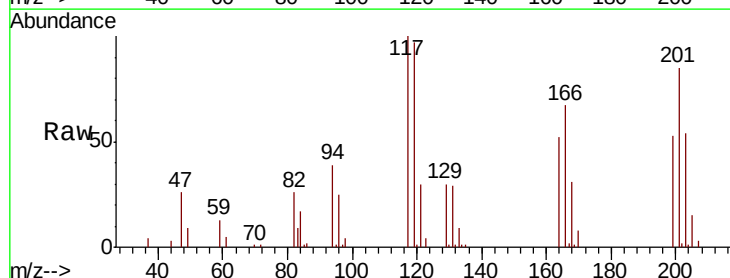
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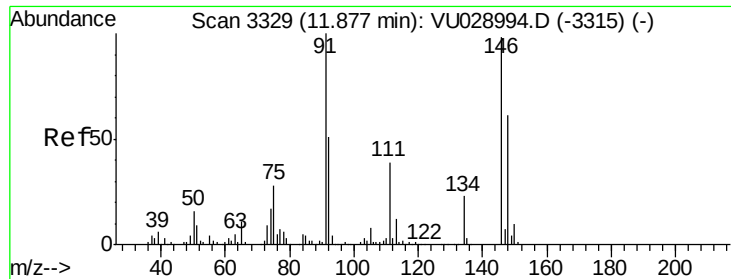
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#90
Hexachloroethane
Concen: 19.367 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU029115.D
Acq: 10 Jan 2019 13:51

Tgt Ion: 117 Resp: 21755
Ion Ratio Lower Upper
117 100
201 85.0 42.4 127.3





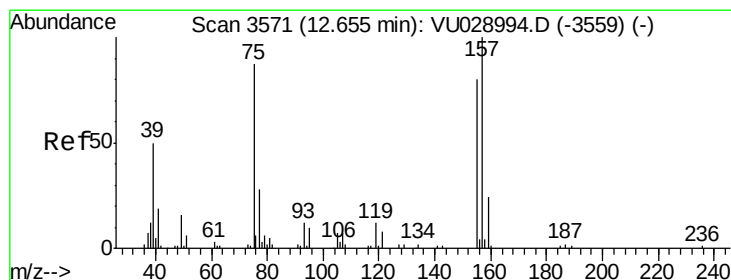
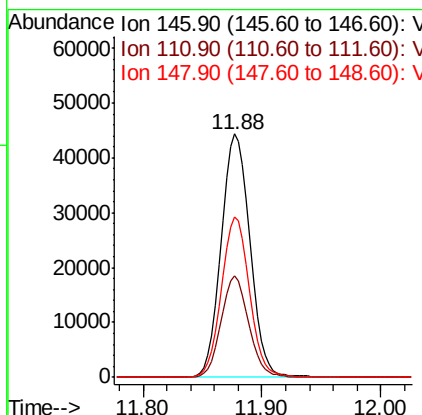
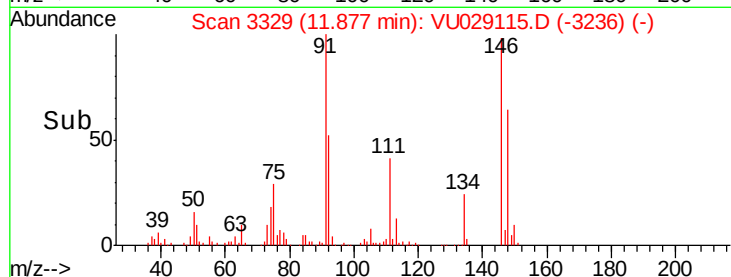
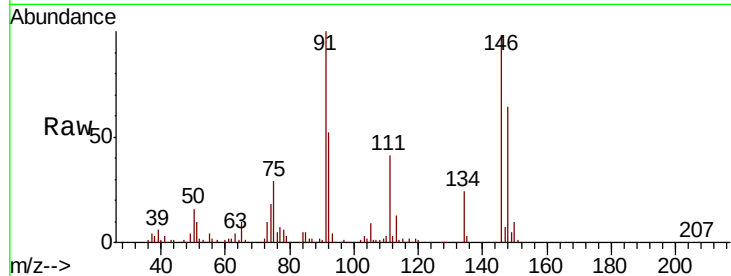
#91
 1,2-Dichlorobenzene
 Concen: 19.655 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.0	59.9
148	64.1	31.6	94.8

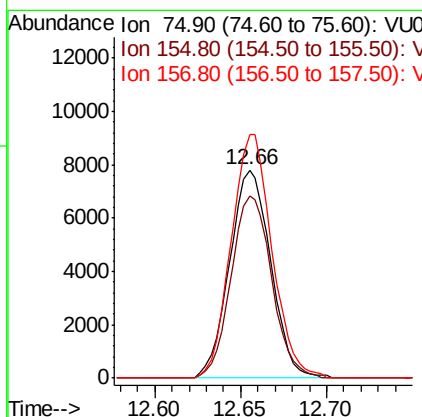
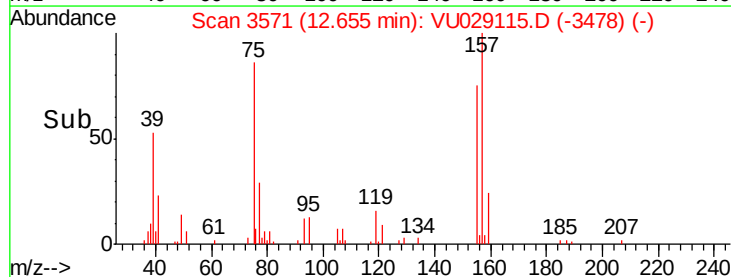
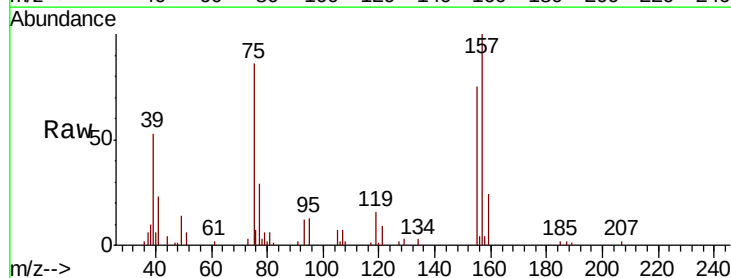
Manual Integrations
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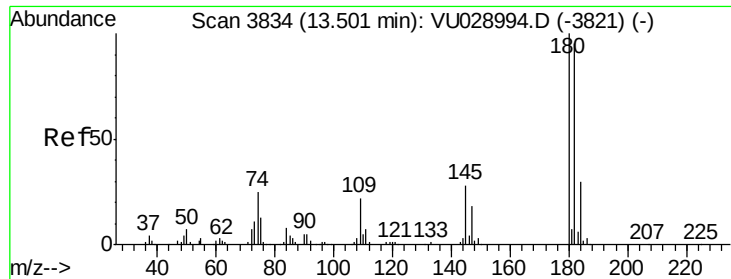
MMDadoda
 1/11/2019 10:03:43 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.360 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.4	46.3	138.8
157	115.9	57.4	172.0





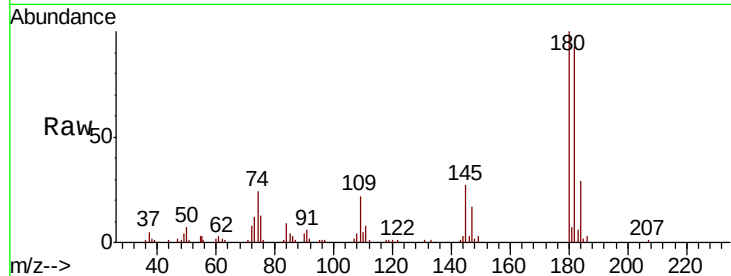
#93
 1,2,4-Trichlorobenzene
 Concen: 19.975 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0110WBSD01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.6	47.5	142.6
145	27.8	14.0	42.0

Manual Integrations
 APPROVED

MMDadoda
 1/11/2019 10:03:43 AM

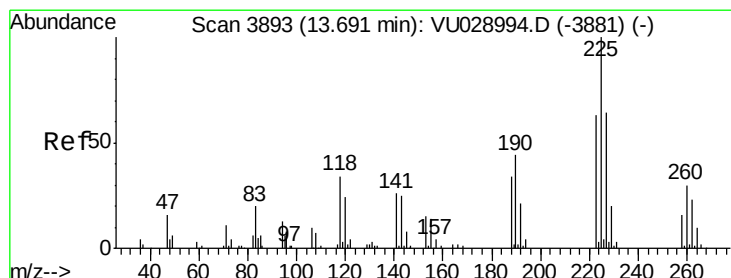
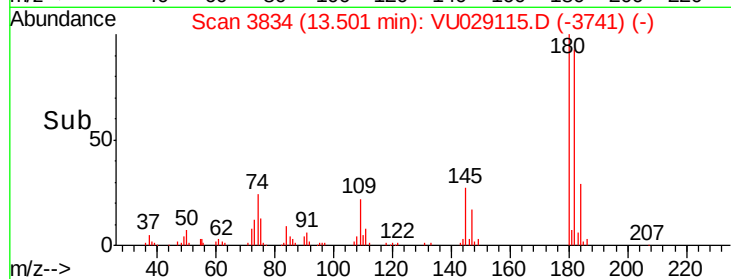
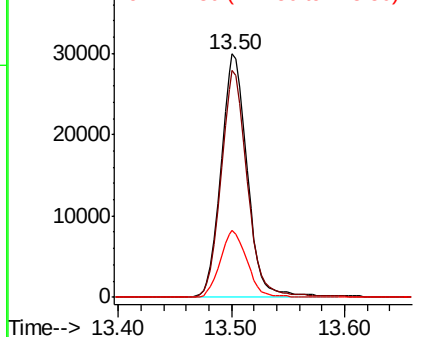


Abundance

Ion 179.80 (179.50 to 180.50): V

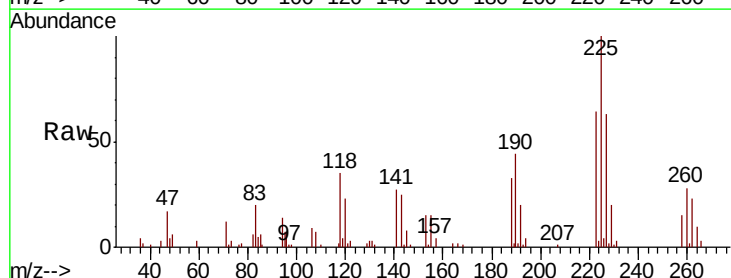
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 21.368 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU029115.D
 Acq: 10 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.4	94.0
227	64.1	31.9	95.5

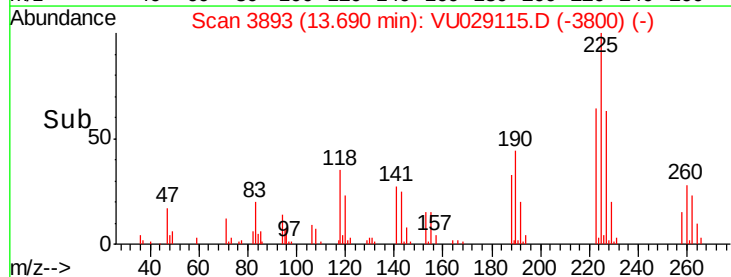
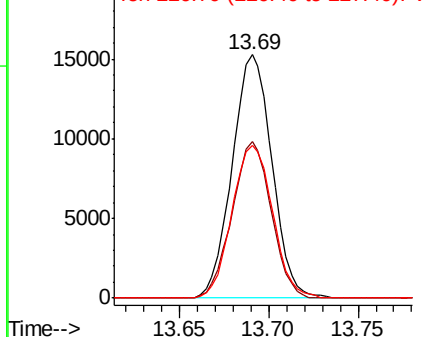


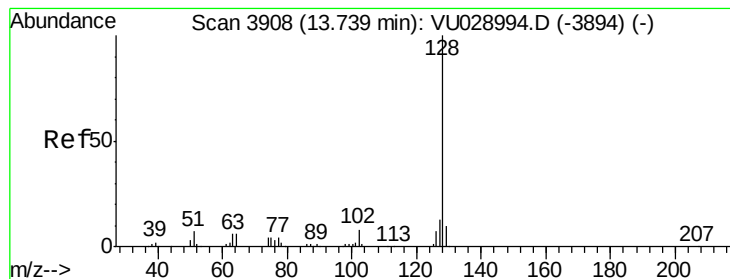
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 19.906 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Instrument :

MSVOA_U

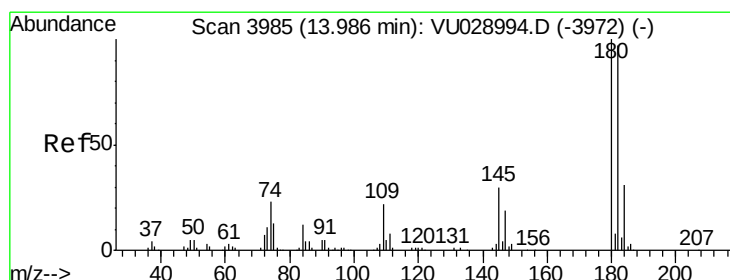
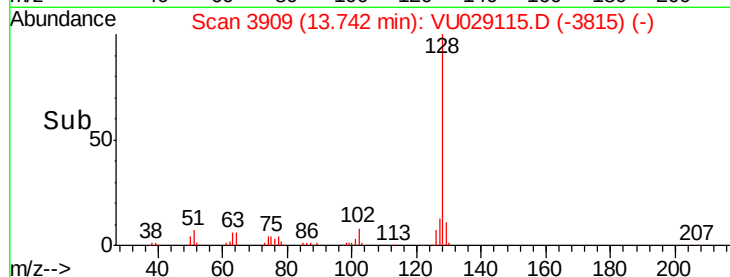
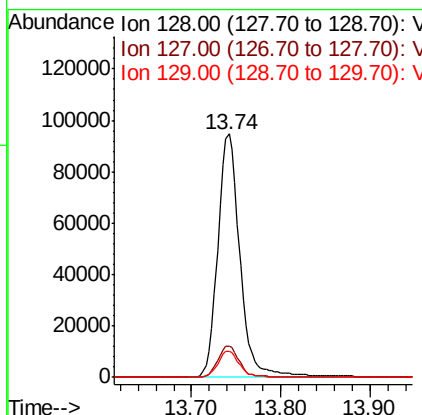
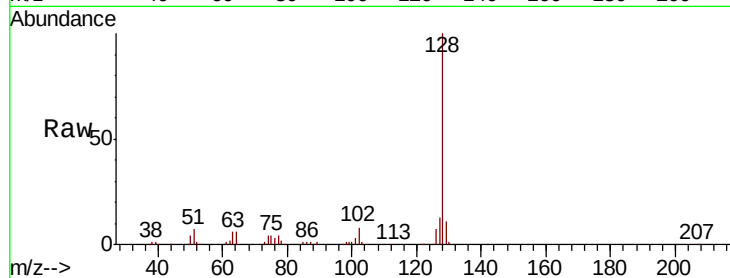
ClientSampleId :

VU0110WBSD01

Tgt Ion:	128	Resp:	163830
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.1	15.1
129	10.0	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/11/2019 10:03:43 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.384 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU029115.D

Acq: 10 Jan 2019 13:51

Tgt Ion:	180	Resp:	49607
Ion Ratio	Lower	Upper	
180	100		
182	93.5	48.1	144.3
145	31.0	14.8	44.4

