

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011219\
 Data File : VU029143.D
 Acq On : 11 Jan 2019 15:44
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/14/2019 10:58:57 AM

Quant Time: Jan 11 23:49:05 2019
 Quant Method : Z:\VOASRV\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	169319	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	263076	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	255016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	133730	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	111186	53.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.24%	
35) Dibromofluoromethane	4.88	113	93141	54.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.24%	
50) Toluene-d8	7.56	98	359389	53.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.76%	
62) 4-Bromofluorobenzene	10.30	95	129727	53.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	85258	50.774	ug/l	97
3) Chloromethane	1.33	50	121514	45.273	ug/l	100
4) Vinyl Chloride	1.40	62	123038	49.722	ug/l	99
5) Bromomethane	1.61	94	61501	48.235	ug/l	98
6) Chloroethane	1.69	64	73408	49.805	ug/l	100
7) Trichlorofluoromethane	1.88	101	136536	50.637	ug/l	99
8) Diethyl Ether	2.10	74	63474	48.999	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.28	101	93817	52.001	ug/l	99
10) Methyl Iodide	2.40	142	73932	43.582	ug/l	98
11) Tert butyl alcohol	2.83	59	119422	224.461	ug/l	100
12) 1,1-Dichloroethene	2.28	96	88037	50.133	ug/l	99
13) Acrolein	2.19	56	110446	276.458	ug/l	98
14) Allyl chloride	2.59	41	152160	47.224	ug/l	92
15) Acrylonitrile	2.93	53	337969	258.926	ug/l	99
16) Acetone	2.32	43	399700	303.129	ug/l	99
17) Carbon Disulfide	2.47	76	275978	47.430	ug/l	99
18) Methyl Acetate	2.61	43	166335	54.253	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	316015	51.186	ug/l	100
20) Methylene Chloride	2.70	84	110872	49.524	ug/l	99
21) trans-1,2-Dichloroethene	2.98	96	98440	48.249	ug/l	97
22) Diisopropyl ether	3.57	45	341411	53.613	ug/l	99
23) Vinyl Acetate	3.52	43	1378019	264.701	ug/l	100
24) 1,1-Dichloroethane	3.44	63	193961	52.762	ug/l	99
25) 2-Butanone	4.26	43	500384	280.967	ug/l	100
26) 2,2-Dichloropropane	4.22	77	157969	53.181	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	113898	51.042	ug/l	99
28) Bromochloromethane	4.55	49	84200	53.491	ug/l	98
29) Tetrahydrofuran	4.63	42	283038	262.032	ug/l	96
30) Chloroform	4.67	83	187483	53.545	ug/l	99
31) Cyclohexane	4.99	56	173836	50.096	ug/l	98
32) 1,1,1-Trichloroethane	4.91	97	151037	52.205	ug/l	97
36) 1,1-Dichloropropene	5.13	75	140501	53.431	ug/l	99
37) Ethyl Acetate	4.38	43	158464	54.901	ug/l	98
38) Carbon Tetrachloride	5.13	117	124378	56.711	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	170529	52.751	ug/l	100
40) Benzene	5.39	78	445519	54.316	ug/l	100
41) Methacrylonitrile	4.54	41	87614	56.707	ug/l	98
42) 1,2-Dichloroethane	5.40	62	142335	57.749	ug/l	99
43) Isopropyl Acetate	5.55	43	245749	55.503	ug/l	99
44) Trichloroethene	6.18	130	105983	52.149	ug/l	98
45) 1,2-Dichloropropane	6.43	63	122346	56.483	ug/l	99
46) Dibromomethane	6.56	93	77774	56.167	ug/l	98
47) Bromodichloromethane	6.75	83	146594	57.501	ug/l	100
48) Methyl methacrylate	6.62	41	123982	57.507	ug/l	98
49) 1,4-Dioxane	6.61	88	51510	1008.168	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	842999	279.760	ug/l	99
52) Toluene	7.63	92	271841	54.441	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	166646	54.414	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	181967	54.987	ug/l	99
55) 1,1,2-Trichloroethane	8.06	97	114474	57.225	ug/l	98
56) Ethyl methacrylate	8.02	69	166991	54.185	ug/l	97
57) 1,3-Dichloropropane	8.24	76	189141	55.257	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.12	63	383419	282.895	ug/l	99
59) 2-Hexanone	8.36	43	680736	287.798	ug/l	98
60) Dibromochloromethane	8.48	129	108550	54.772	ug/l	98
61) 1,2-Dibromoethane	8.58	107	118457	54.600	ug/l	99
64) Tetrachloroethene	8.22	164	97866	53.274	ug/l	98
65) Chlorobenzene	9.12	112	292022	51.086	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	101312	54.614	ug/l	99
67) Ethyl Benzene	9.25	91	505817	53.000	ug/l	100
68) m/p-Xylenes	9.37	106	395989	106.788	ug/l	100
69) o-Xylene	9.78	106	187467	52.468	ug/l	98
70) Styrene	9.79	104	322320	55.029	ug/l	99
71) Bromoform	9.95	173	86422	52.321	ug/l #	99
73) Isopropylbenzene	10.16	105	502563	50.772	ug/l	99
74) N-amyl acetate	10.01	43	215281	50.472	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	194747	49.090	ug/l	98
76) 1,2,3-Trichloropropane	10.49	75	166440m	50.797	ug/l	
77) Bromobenzene	10.45	156	127921	49.591	ug/l	98
78) n-propylbenzene	10.58	91	619052	53.069	ug/l	99
79) 2-Chlorotoluene	10.66	91	354085	50.039	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	427811	51.756	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	51797m	40.770	ug/l	
82) 4-Chlorotoluene	10.77	91	415083	51.157	ug/l	98
83) tert-Butylbenzene	11.10	119	408023	50.082	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	438422	53.125	ug/l	99
85) sec-Butylbenzene	11.32	105	518160	52.589	ug/l	100
86) p-Isopropyltoluene	11.48	119	451556	53.782	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	238603	50.430	ug/l	98
88) 1,4-Dichlorobenzene	11.50	146	238036	48.739	ug/l	99
89) n-Butylbenzene	11.89	91	433940	57.907	ug/l	99
90) Hexachloroethane	12.14	117	68859	48.751	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	236482	49.623	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	39399	51.636	ug/l	95

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QLast Update : Fri Jan 04 02:22:53 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	159626	52.472	ug/l	100
94) Hexachlorobutadiene	13.69	225	78352	56.310	ug/l	99
95) Naphthalene	13.74	128	505649	48.861	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	159652	50.964	ug/l	99

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

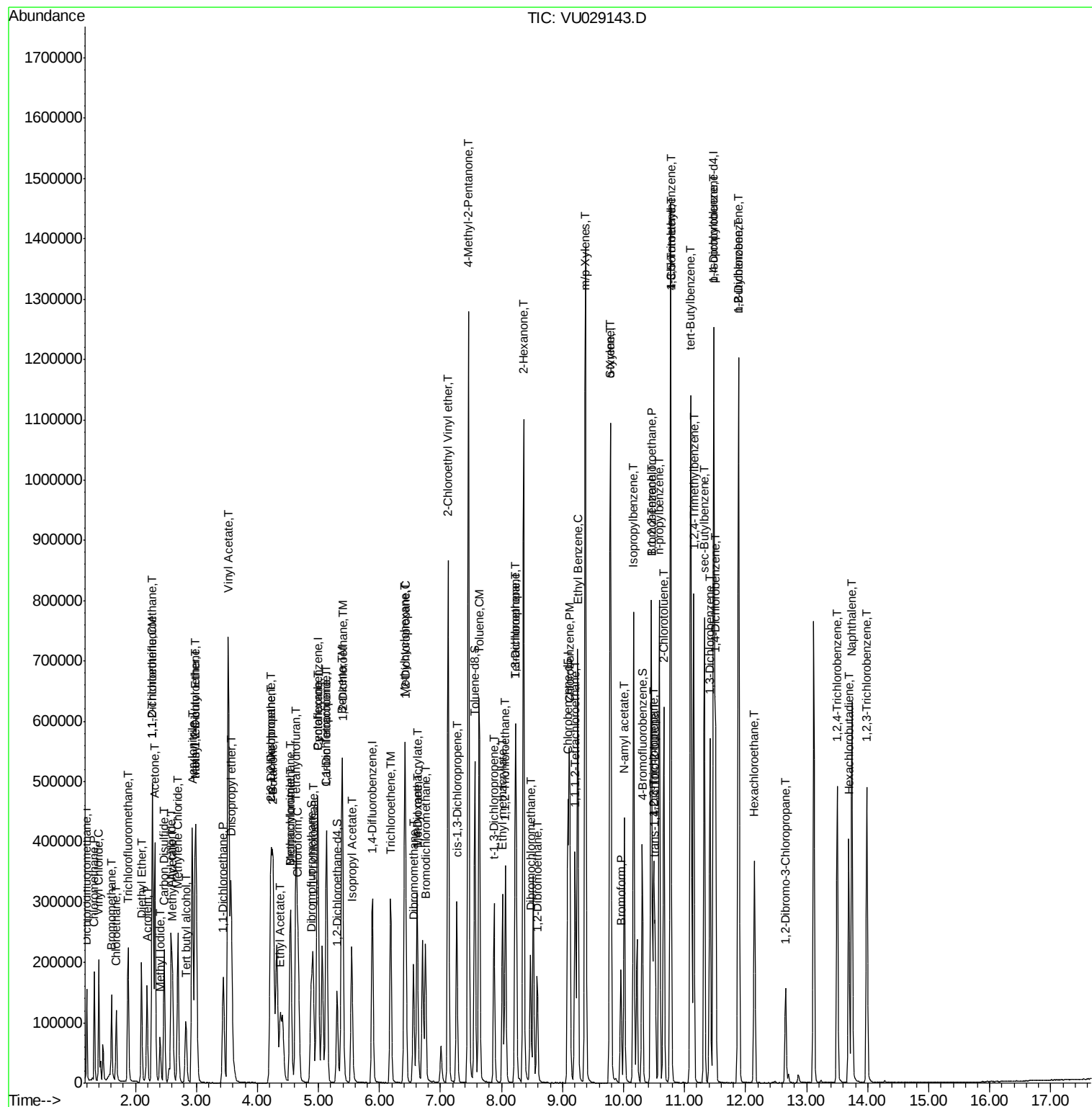
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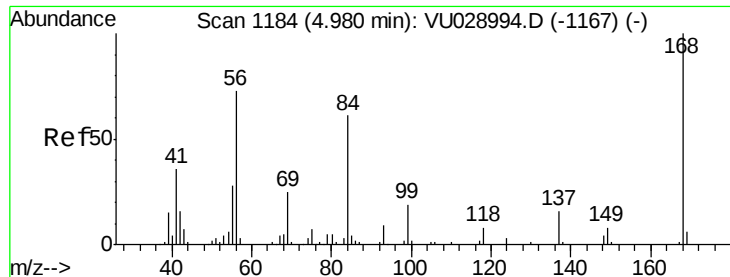
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 169319

Ion Ratio Lower Upper

168 100

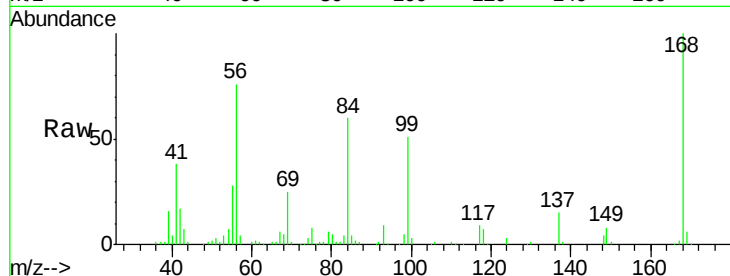
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Manual Integrations

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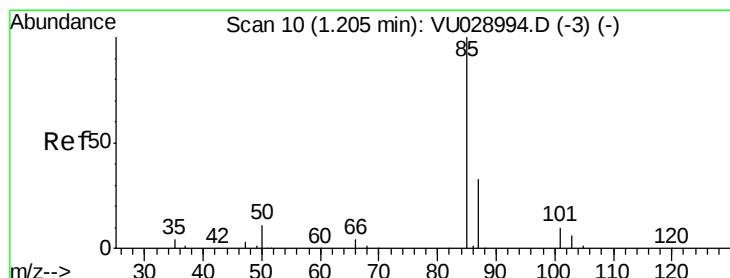
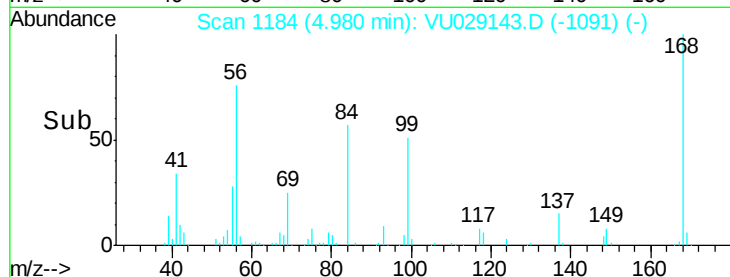
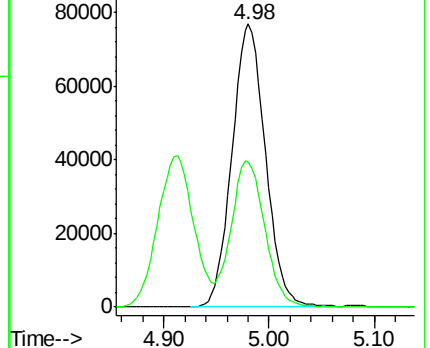
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#2

Dichlorodifluoromethane

Concen: 50.774 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU029143.D

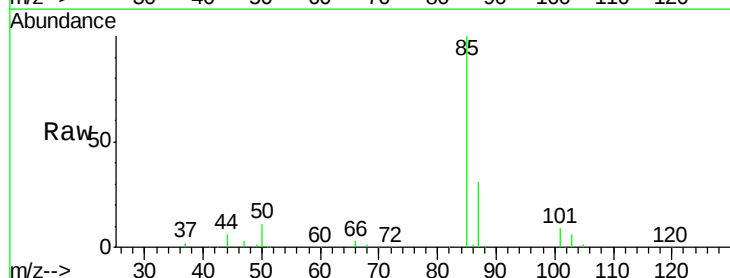
Acq: 11 Jan 2019 15:44

Tgt Ion: 85 Resp: 85258

Ion Ratio Lower Upper

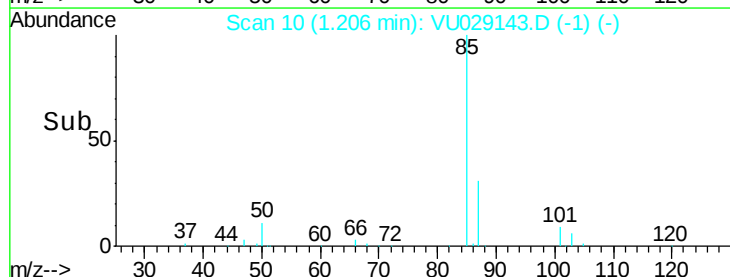
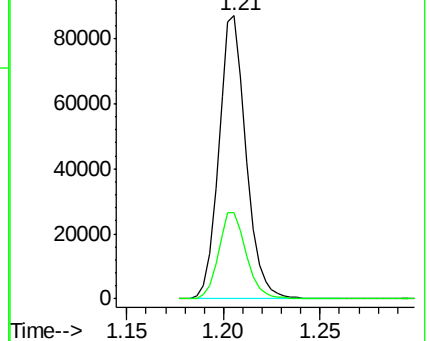
85 100

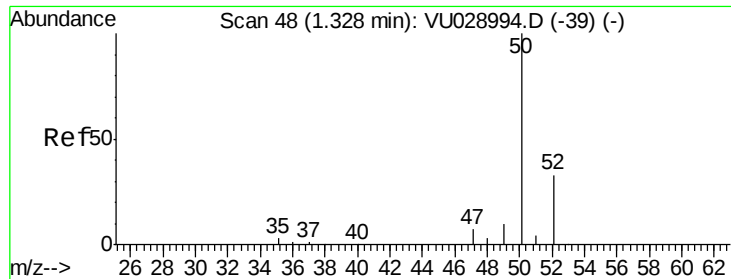
87 30.7 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VU0

Ion 86.90 (86.60 to 87.60): VU0





#3

Chloromethane

Concen: 45.273 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tot Ion: 50 Resp: 121514

Ion Ratio Lower Upper

50 100

52 32.7 26.1 39.1

Instrument :

MSVOA_U

ClientSampleId :

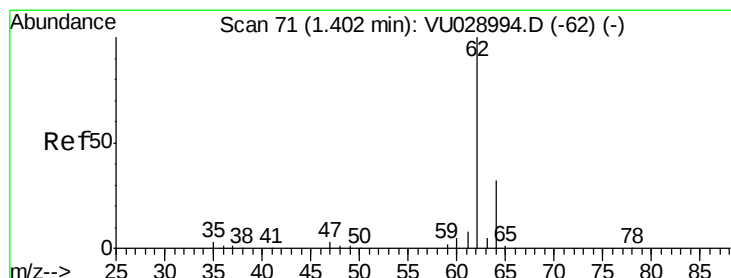
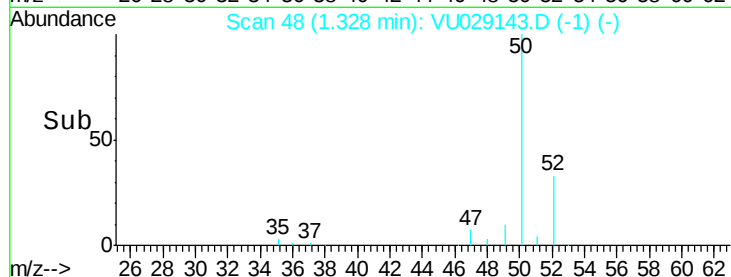
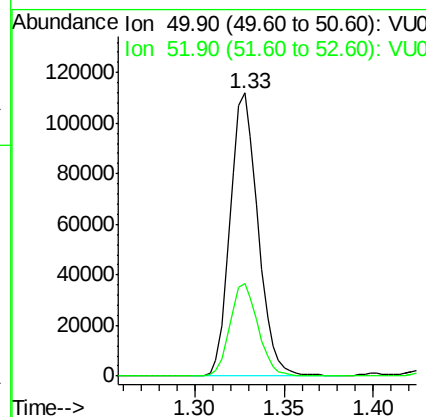
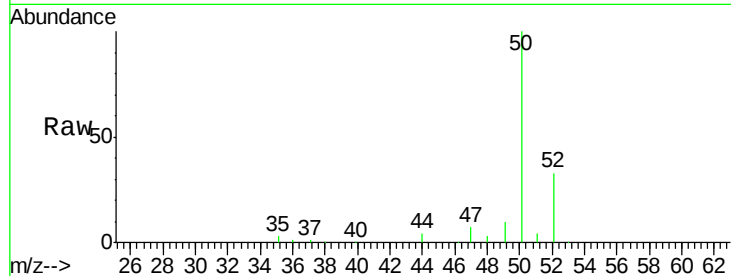
VSTDCCC050

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#4

Vinyl Chloride

Concen: 49.722 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029143.D

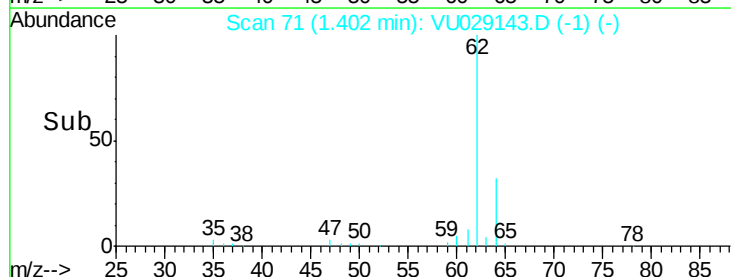
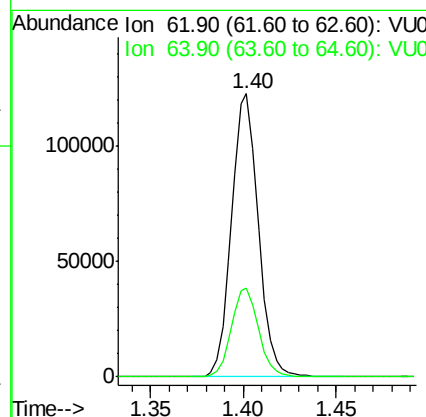
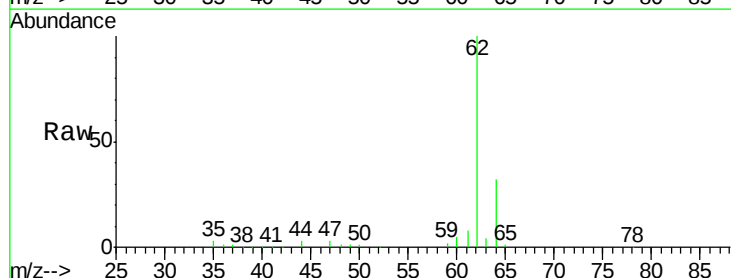
Acq: 11 Jan 2019 15:44

Tgt Ion: 62 Resp: 123038

Ion Ratio Lower Upper

62 100

64 31.6 25.9 38.9





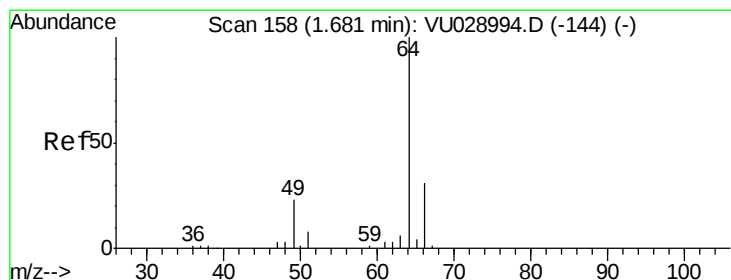
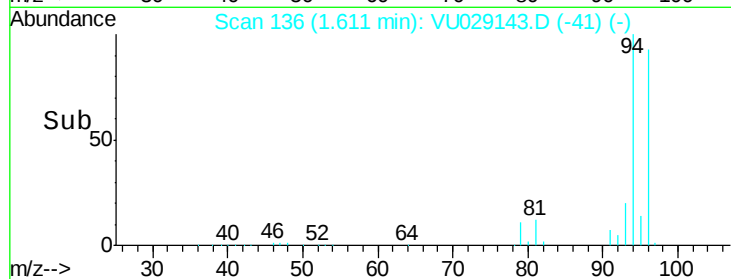
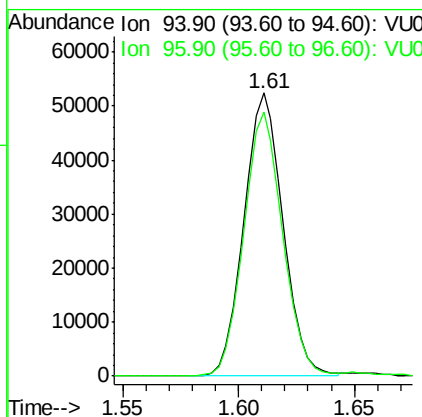
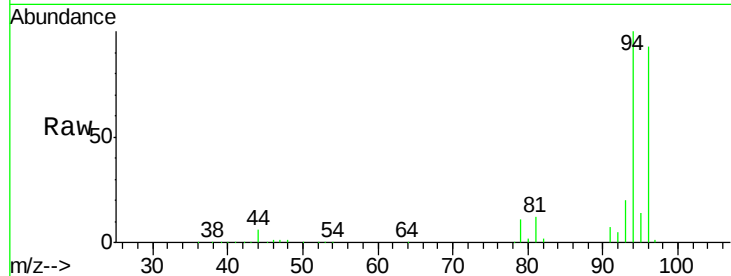
#5
Bromomethane
Concen: 48.235 ug/l
RT: 1.61 min Scan# 136
Delta R.T. 0.01 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 94 Resp: 61501
Ion Ratio Lower Upper
94 100
96 92.9 75.5 113.3

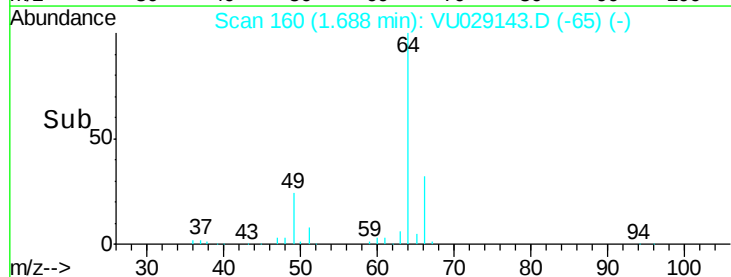
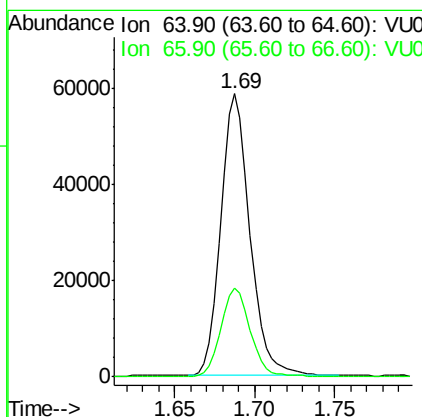
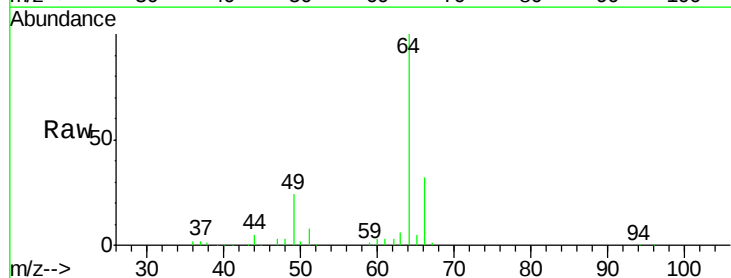
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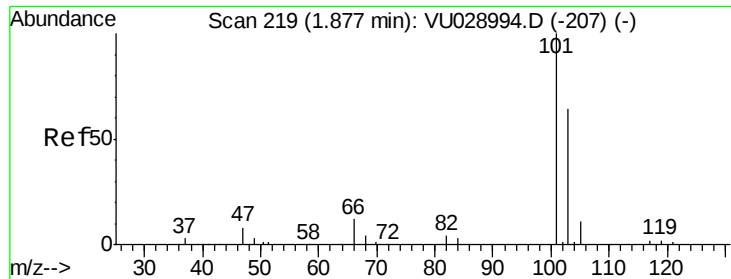
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#6
Chloroethane
Concen: 49.805 ug/l
RT: 1.69 min Scan# 160
Delta R.T. 0.01 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion: 64 Resp: 73408
Ion Ratio Lower Upper
64 100
66 31.7 25.2 37.8





#7

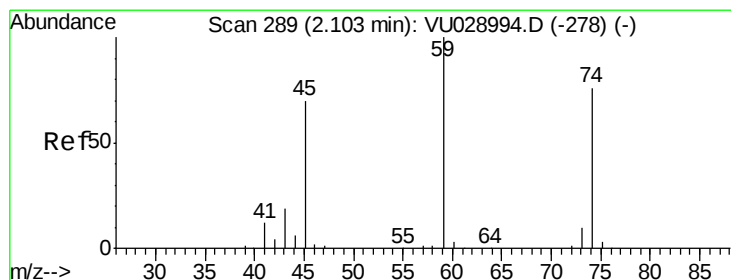
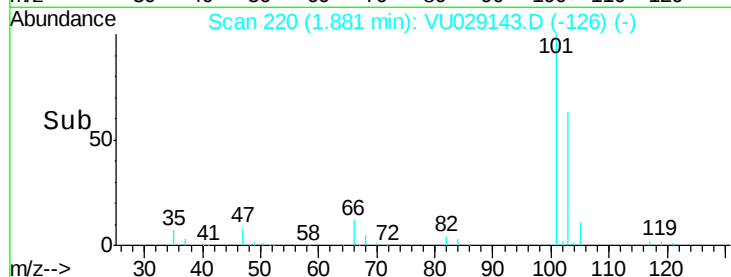
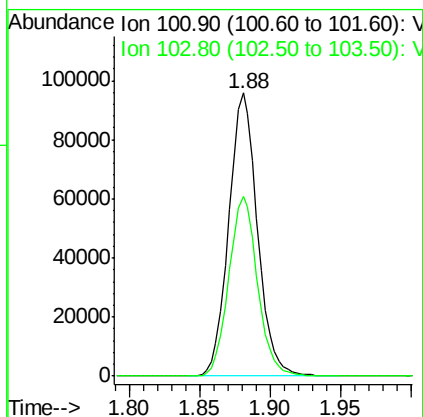
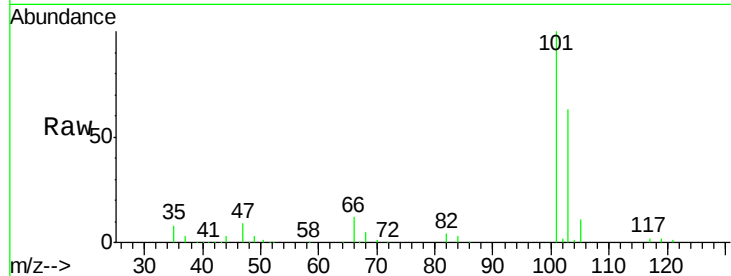
Trichlorofluoromethane
Concen: 50.637 ug/l
RT: 1.88 min Scan# 220
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.4	51.5	77.3

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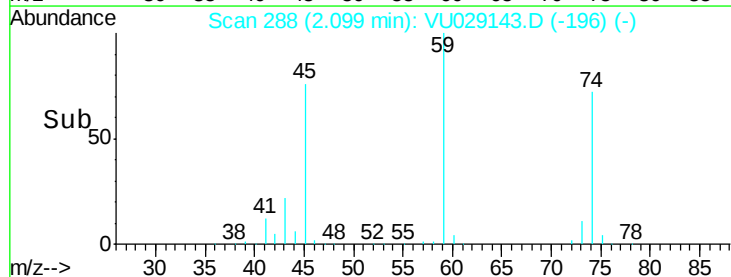
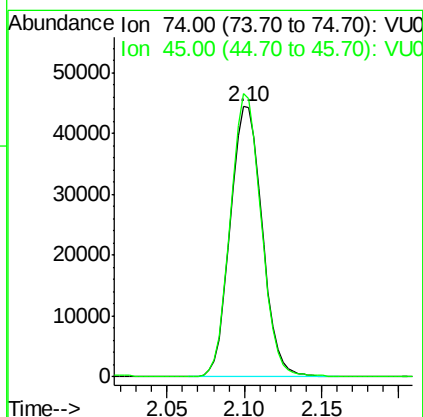
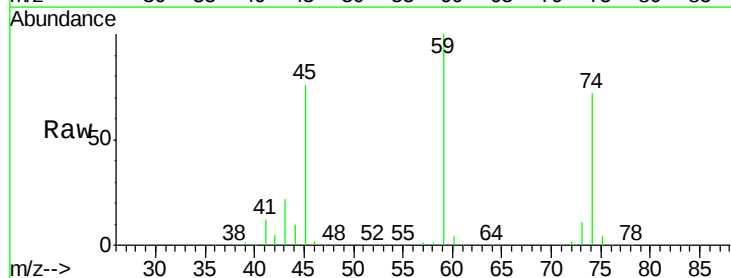
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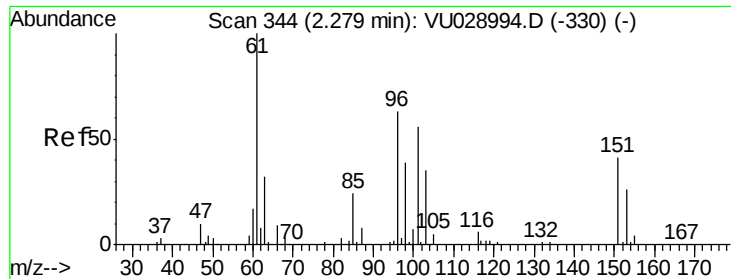


#8

Diethyl Ether
Concen: 48.999 ug/l
RT: 2.10 min Scan# 288
Delta R.T. -0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.3	46.9	140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.001 ug/l

RT: 2.28 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

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MSVOA_U

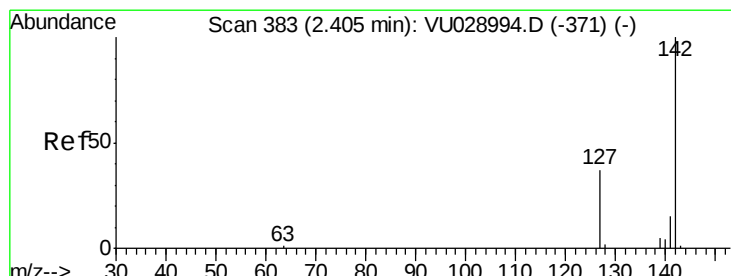
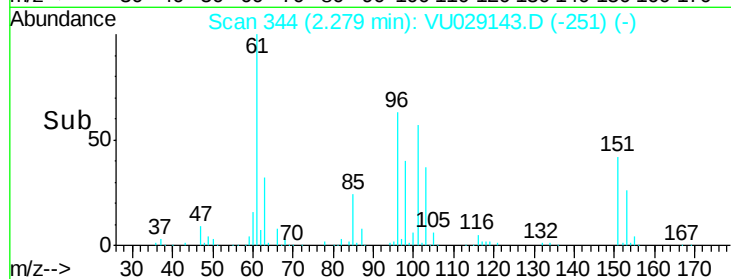
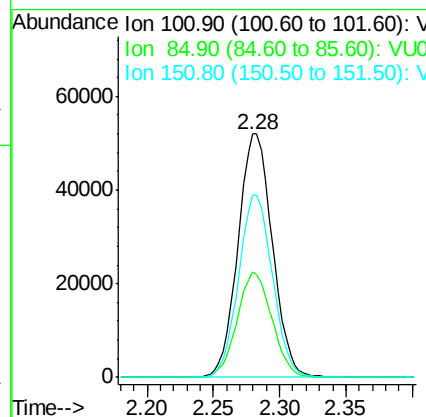
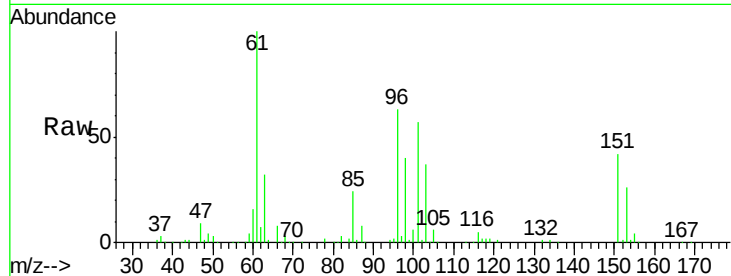
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	93817
Ion Ratio	Lower	Upper	
101	100		
85	43.5	35.1	52.7
151	74.0	60.2	90.2

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#10

Methyl Iodide

Concen: 43.582 ug/l

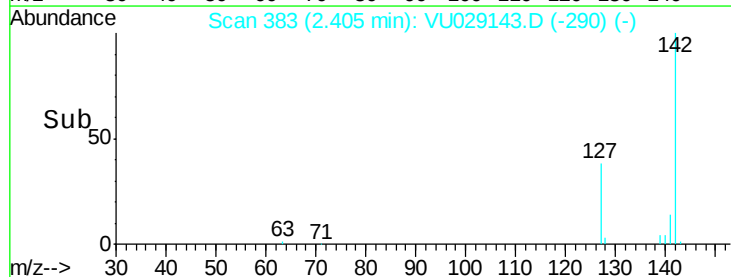
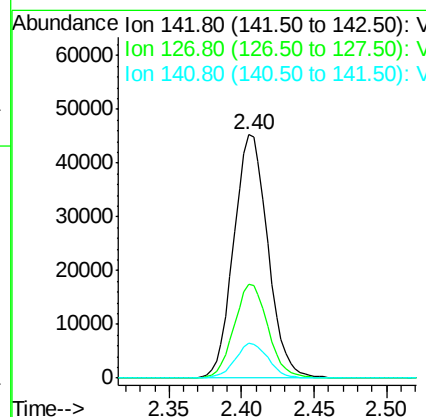
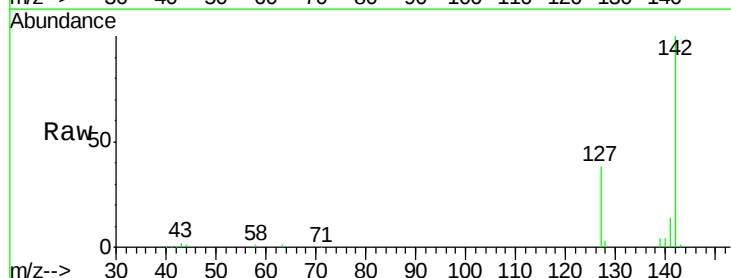
RT: 2.40 min Scan# 383

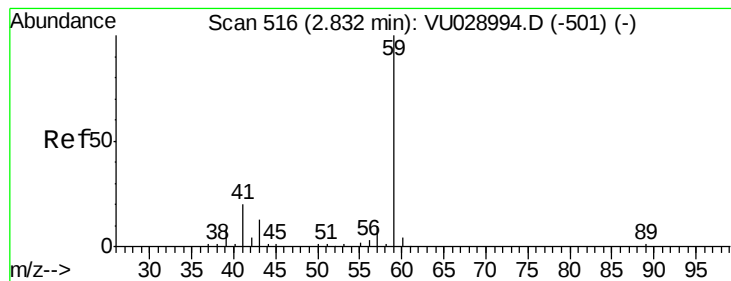
Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tgt Ion:	142	Resp:	73932
Ion Ratio	Lower	Upper	
142	100		
127	38.3	29.8	44.6
141	13.8	11.5	17.3





#11

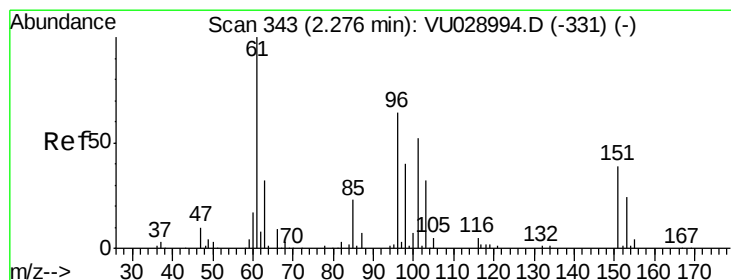
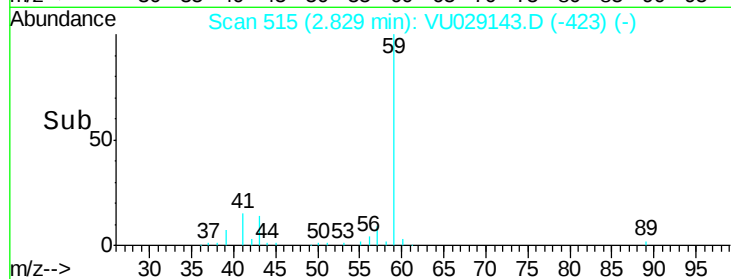
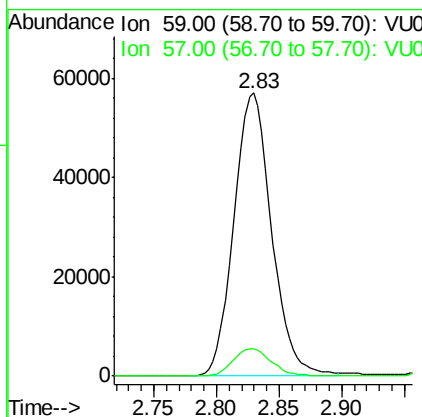
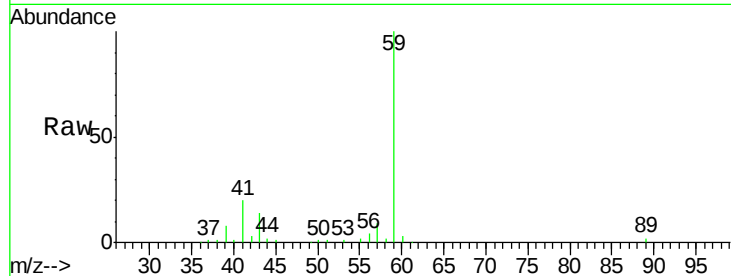
Tert butyl alcohol
Concen: 224.461 ug/l
RT: 2.83 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
59	100	119422		
57	10.0		7.9	11.9

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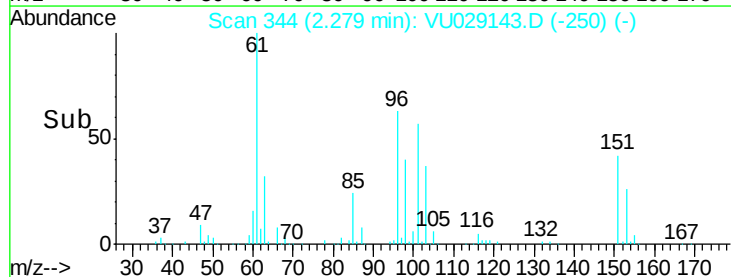
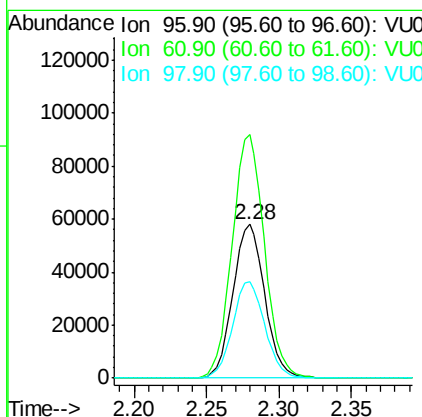
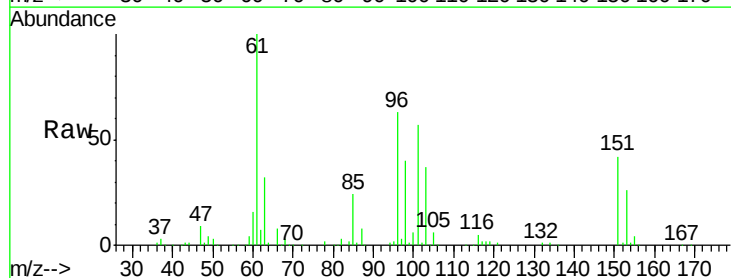
MMDadoda
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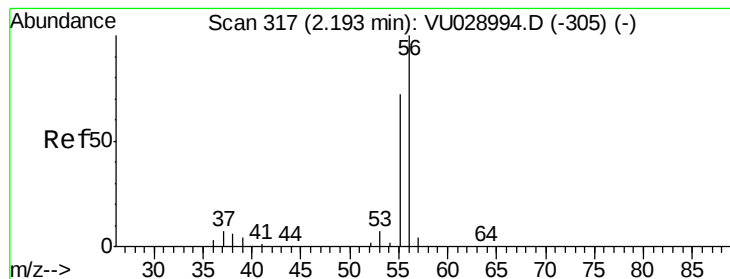


#12

1,1-Dichloroethene
Concen: 50.133 ug/l
RT: 2.28 min Scan# 344
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	88037		
61	158.5		125.4	188.0
98	62.9		49.7	74.5





#13

Acrolein

Concen: 276.458 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 110446

Ion Ratio Lower Upper

56 100

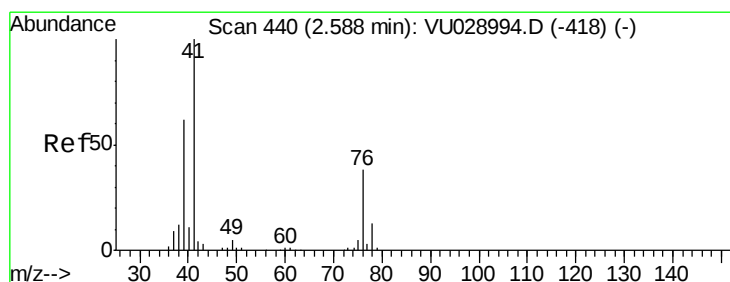
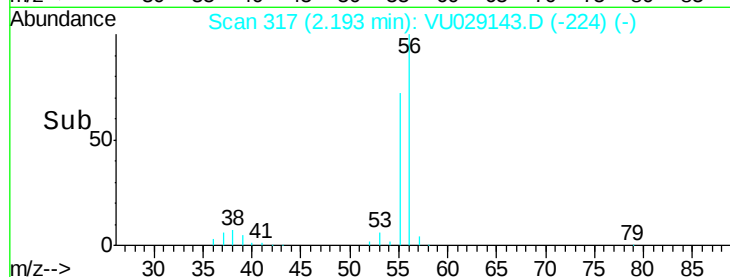
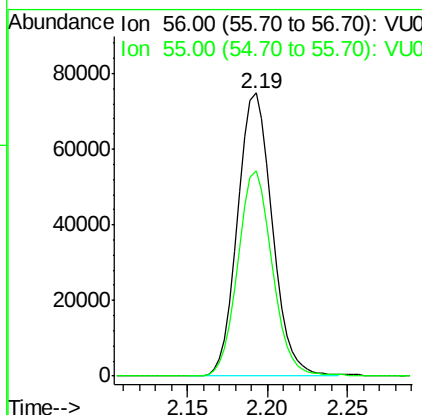
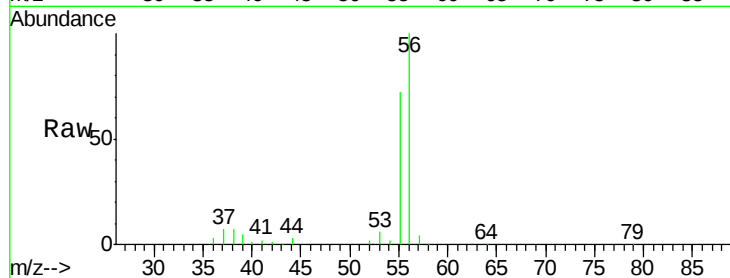
55 72.1 56.5 84.7

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#14

Allyl chloride

Concen: 47.224 ug/l

RT: 2.59 min Scan# 440

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

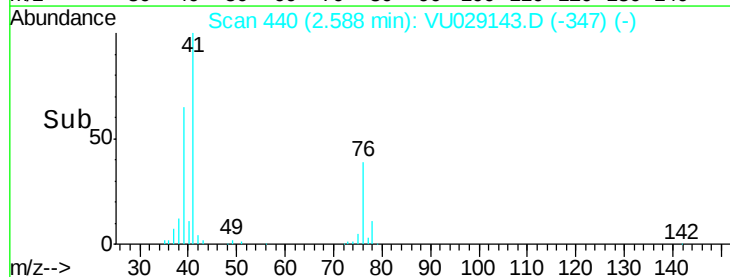
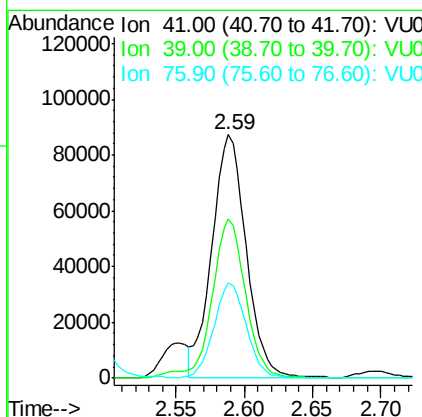
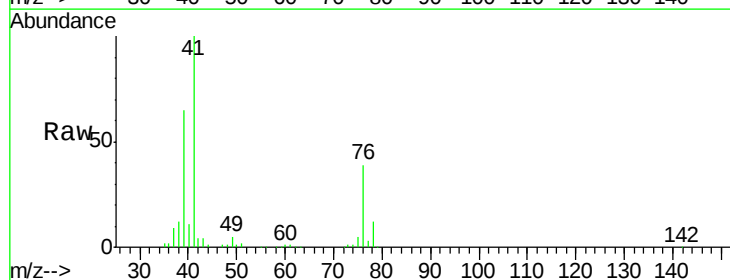
Tgt Ion: 41 Resp: 152160

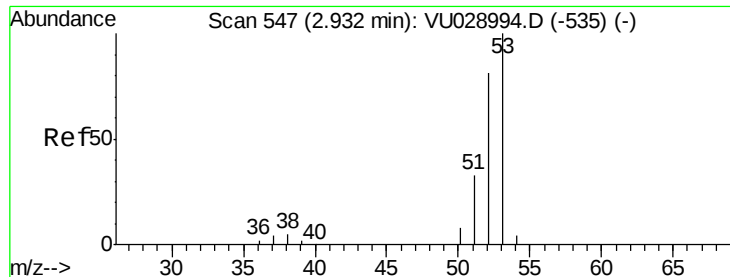
Ion Ratio Lower Upper

41 100

39 64.4 45.0 67.6

76 37.1 28.1 42.1





#15

Acrylonitrile

Concen: 258.926 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

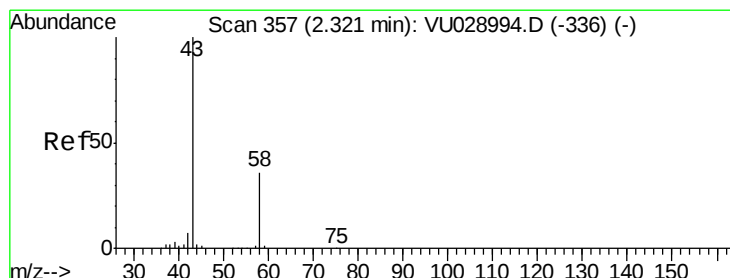
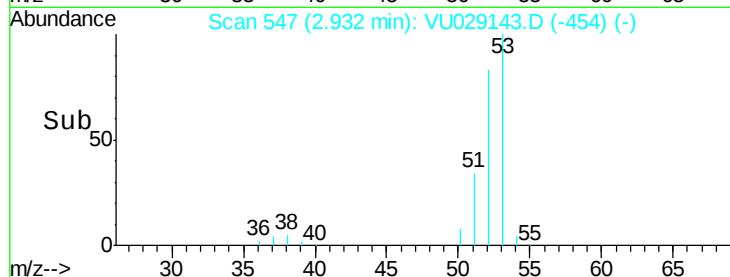
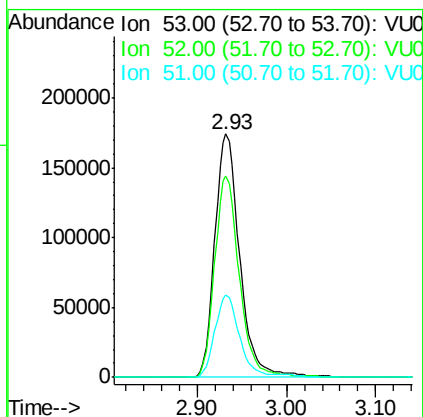
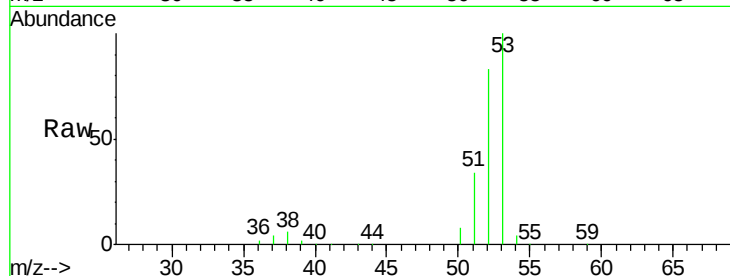
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	337969
Ion	Ratio	Lower	Upper
53	100		
52	81.9	64.8	97.2
51	33.3	27.3	40.9

Manual Integrations
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#16

Acetone

Concen: 303.129 ug/l

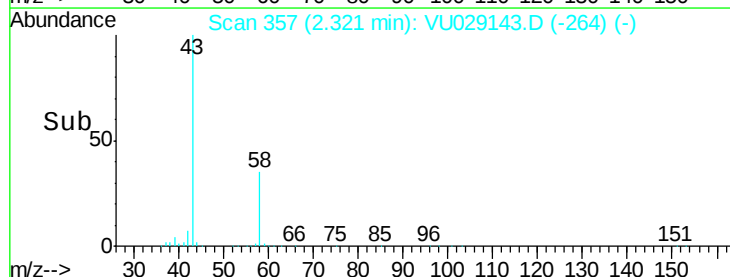
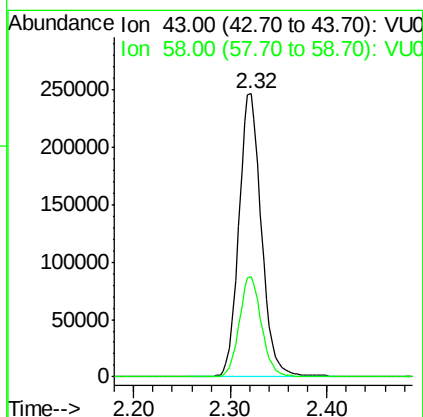
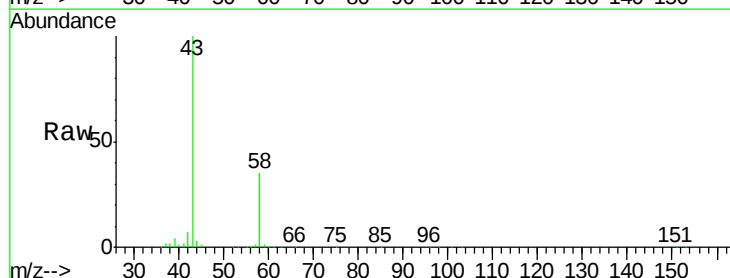
RT: 2.32 min Scan# 357

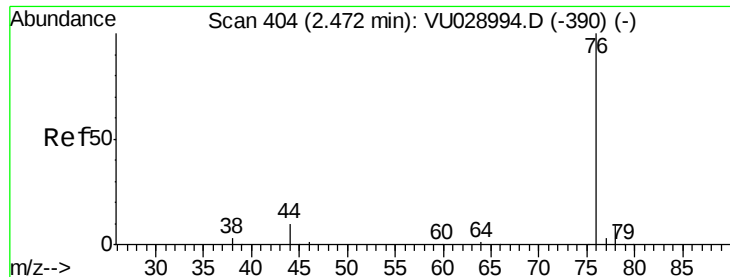
Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tgt Ion:	43	Resp:	399700
Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.6	42.8





#17

Carbon Disulfide

Concen: 47.430 ug/l

RT: 2.47 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tot Ion: 76 Resp: 275978

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8

Instrument :

MSVOA_U

ClientSampleId :

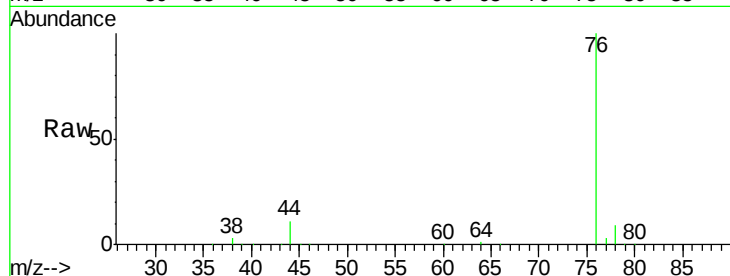
VSTDCCC050

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VU029143.D (-311) (-)

Ion 77.90 (77.60 to 78.60): VU029143.D (-311) (-)

200000

150000

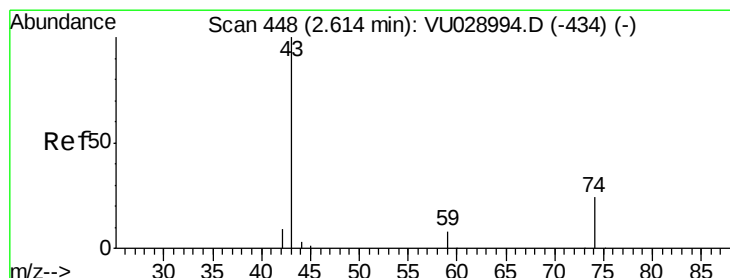
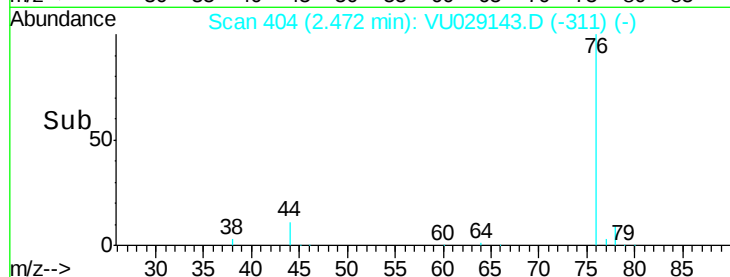
100000

50000

0

2.40 2.45 2.50 2.55

Time-->



#18

Methyl Acetate

Concen: 54.253 ug/l

RT: 2.61 min Scan# 448

Delta R.T. 0.00 min

Lab File: VU029143.D

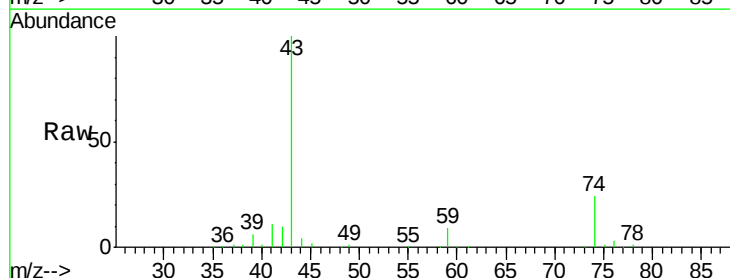
Acq: 11 Jan 2019 15:44

Tgt Ion: 43 Resp: 166335

Ion Ratio Lower Upper

43 100

74 24.7 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VU029143.D (-355) (-)

Ion 74.00 (73.70 to 74.70): VU029143.D (-355) (-)

100000

80000

60000

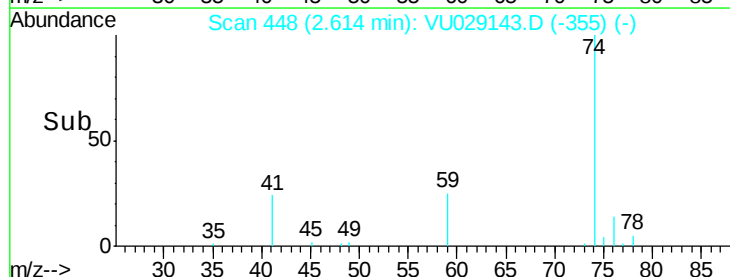
40000

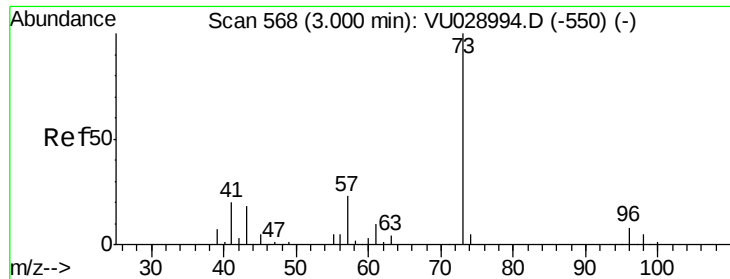
20000

0

2.50 2.60 2.70

Time-->





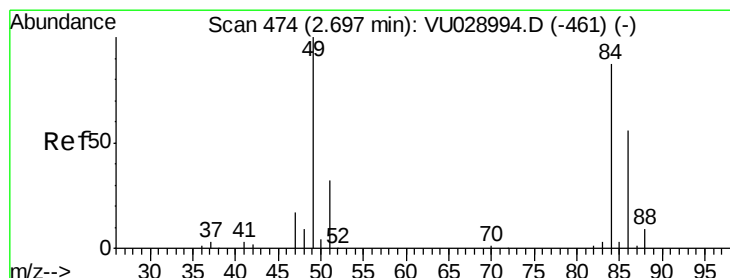
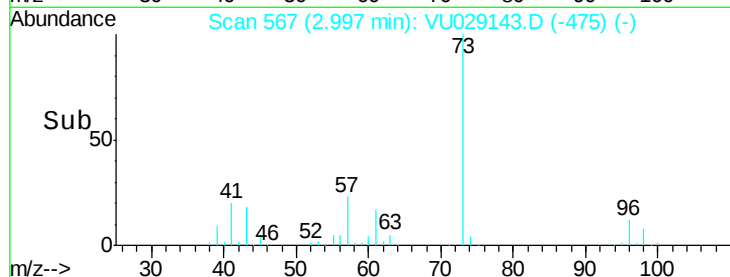
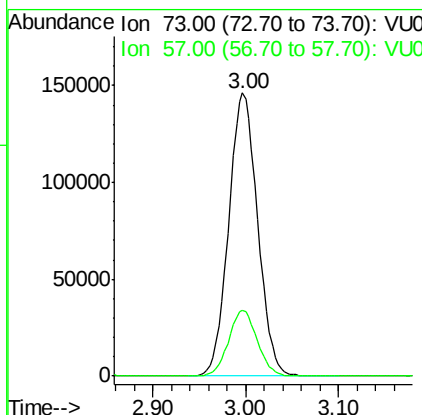
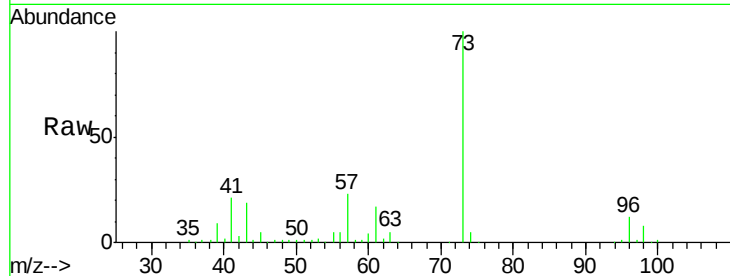
#19
Methyl tert-butyl Ether
Concen: 51.186 ug/l
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 316015
Ion Ratio Lower Upper
73 100
57 23.3 18.6 28.0

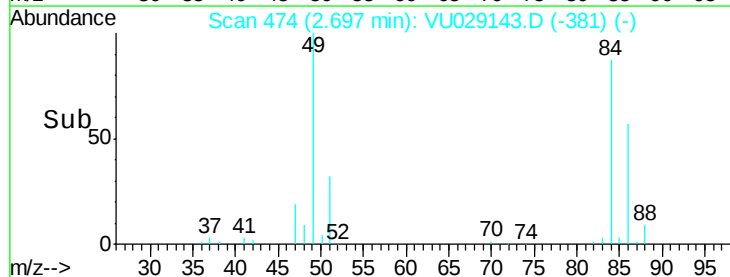
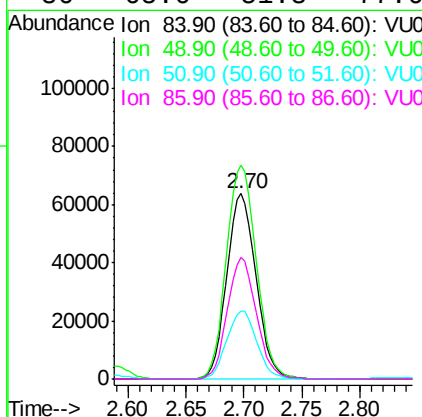
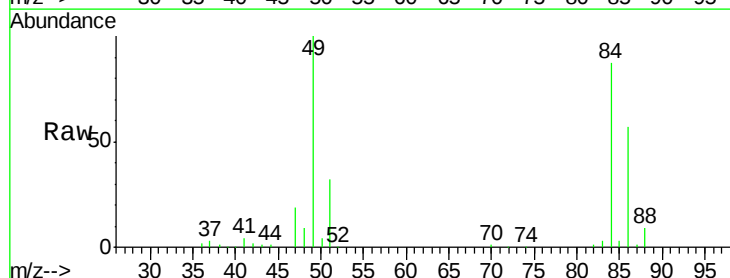
Manual Integrations
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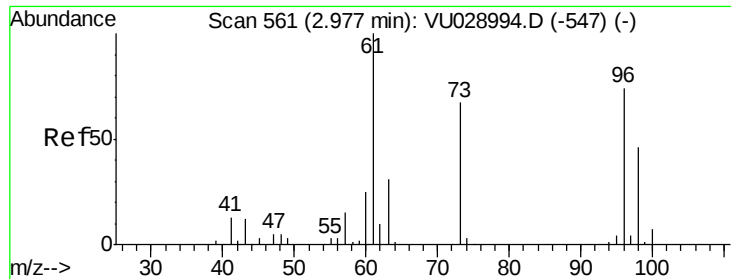
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#20
Methylene Chloride
Concen: 49.524 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion: 84 Resp: 110872
Ion Ratio Lower Upper
84 100
49 115.4 91.9 137.9
51 36.8 29.2 43.8
86 65.6 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 48.249 ug/l

RT: 2.98 min Scan# 561

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 98440

Ion Ratio Lower Upper

96 100

61 137.5 107.7 161.5

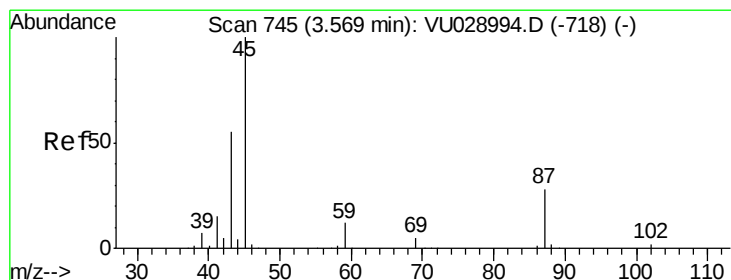
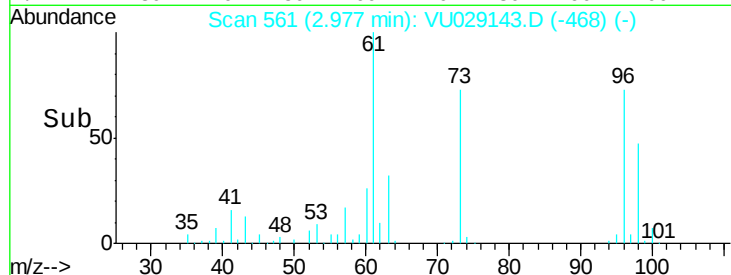
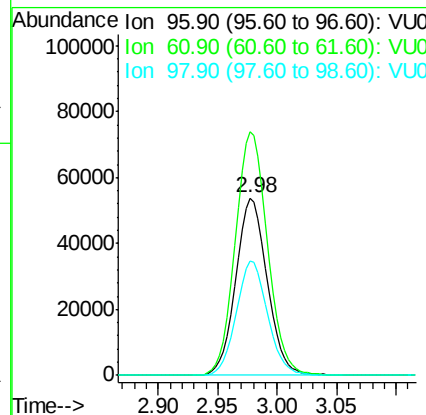
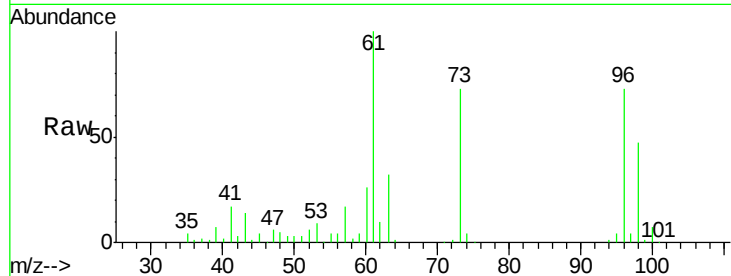
98 64.5 49.2 73.8

Manual Integrations

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#22

Diisopropyl ether

Concen: 53.613 ug/l

RT: 3.57 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tgt Ion: 45 Resp: 341411

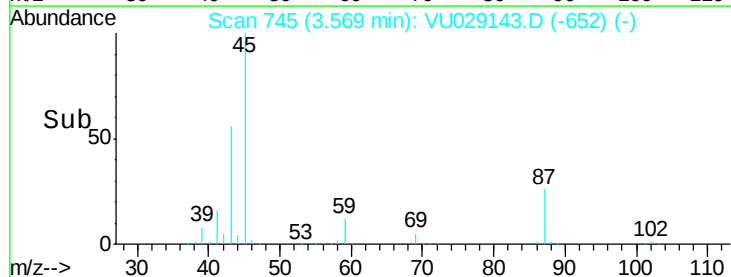
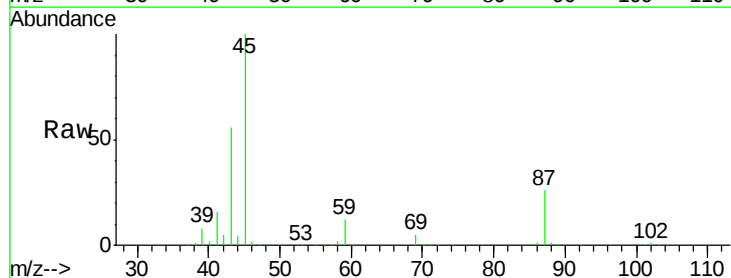
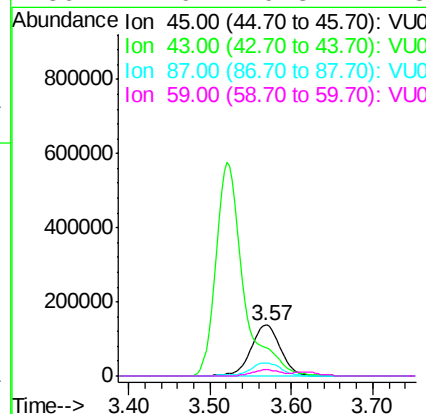
Ion Ratio Lower Upper

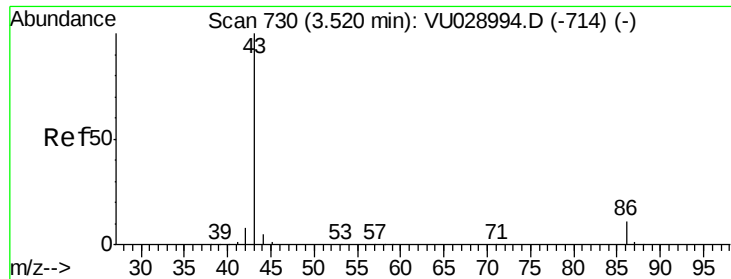
45 100

43 55.9 44.7 67.1

87 26.5 22.2 33.2

59 11.9 9.8 14.8





#23

Vinyl Acetate

Concen: 264.701 ug/l

RT: 3.52 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tot Ion: 43 Resp: 1378019

Ion Ratio Lower Upper

43 100

86 10.7 8.6 13.0

Instrument :

MSVOA_U

ClientSampleId :

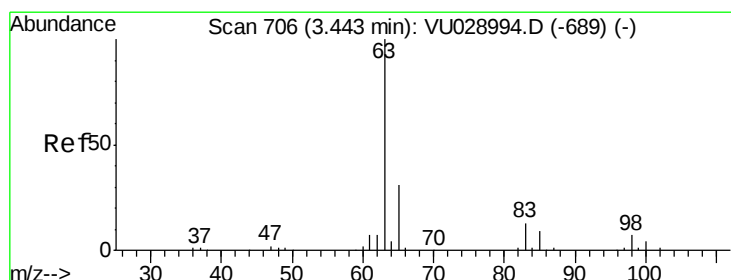
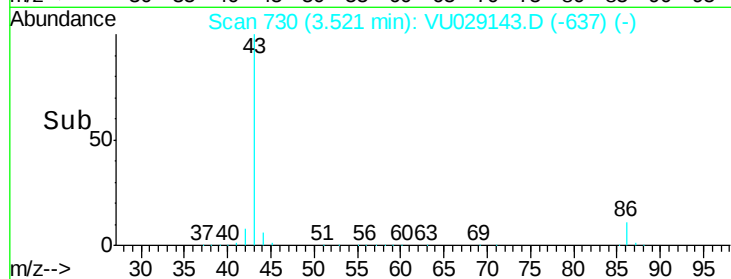
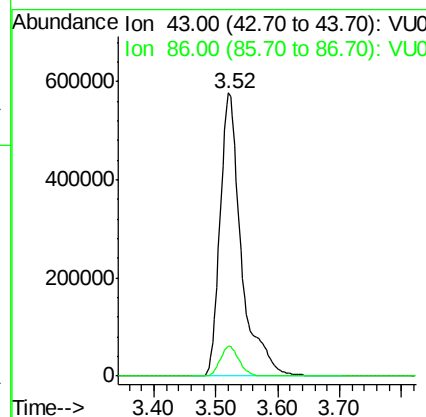
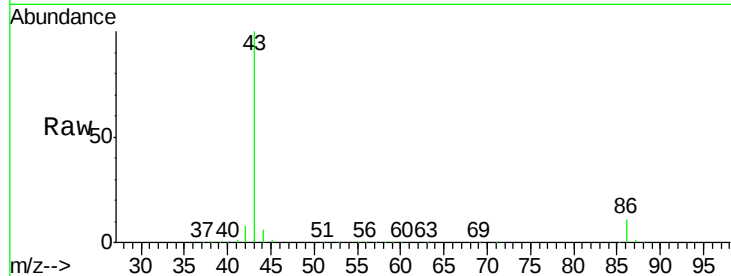
VSTDCCC050

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#24

1,1-Dichloroethane

Concen: 52.762 ug/l

RT: 3.44 min Scan# 705

Delta R.T. -0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

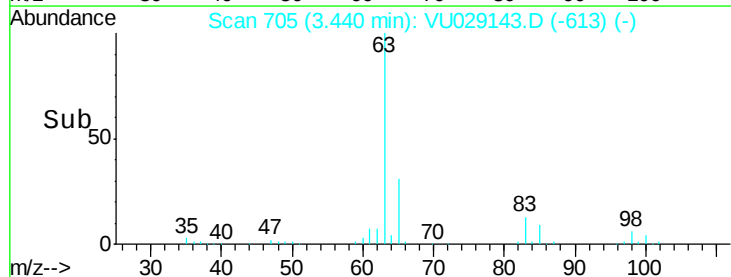
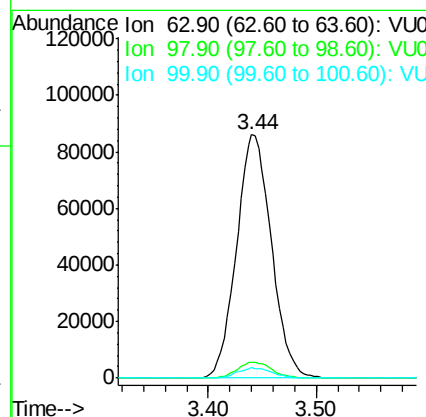
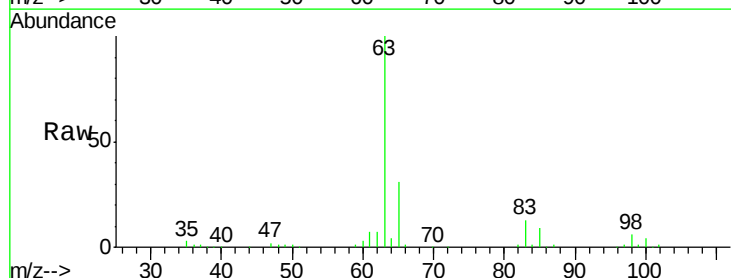
Tgt Ion: 63 Resp: 193961

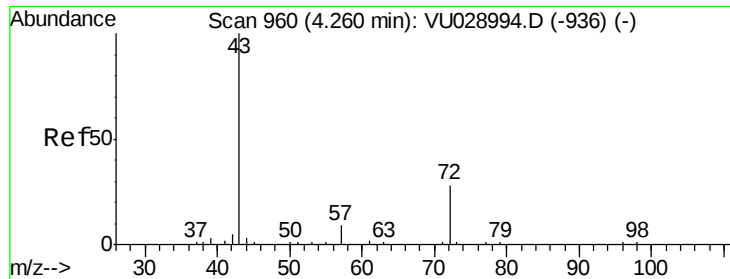
Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.1

100 4.2 2.0 5.8





#25

2-Butanone

Concen: 280.967 ug/l

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 500384

Ion Ratio Lower Upper

43 100

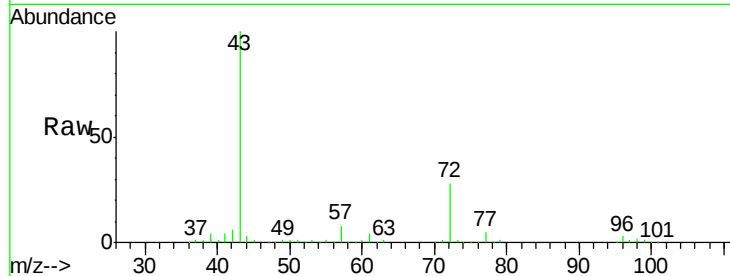
72 28.0 22.6 33.8

Manual Integrations

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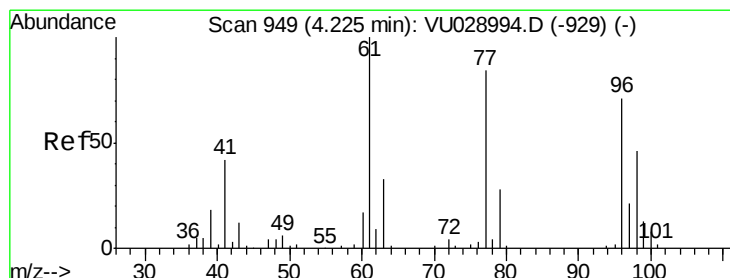
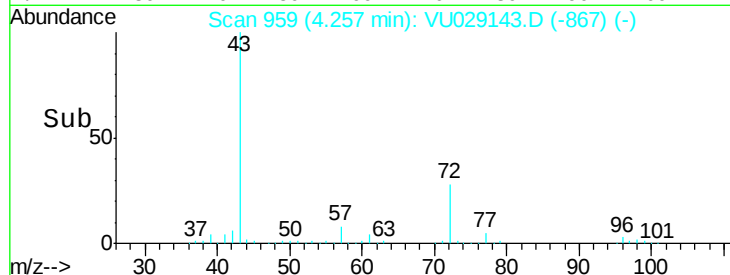
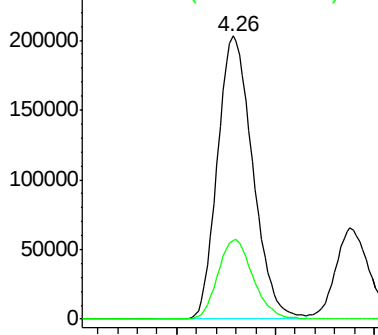
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 53.181 ug/l

RT: 4.22 min Scan# 948

Delta R.T. -0.00 min

Lab File: VU029143.D

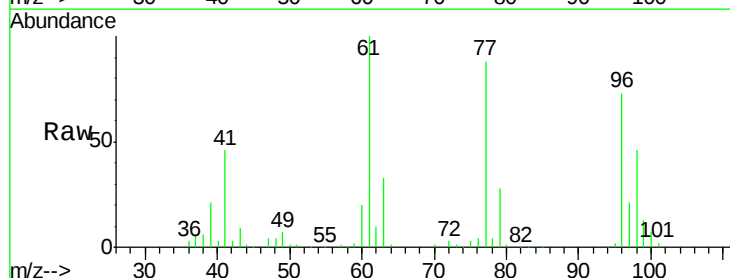
Acq: 11 Jan 2019 15:44

Tgt Ion: 77 Resp: 157969

Ion Ratio Lower Upper

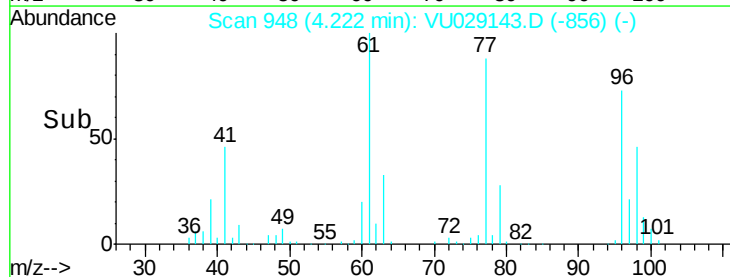
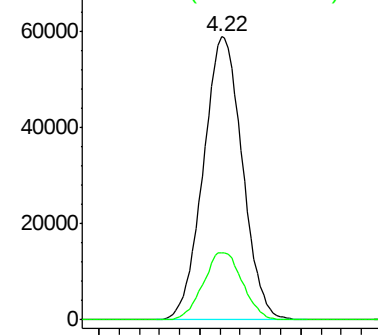
77 100

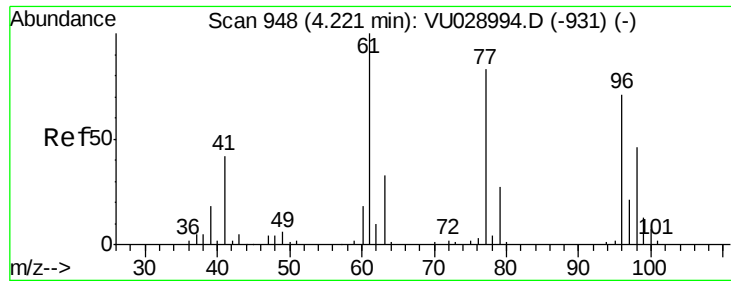
97 23.9 12.0 36.1



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

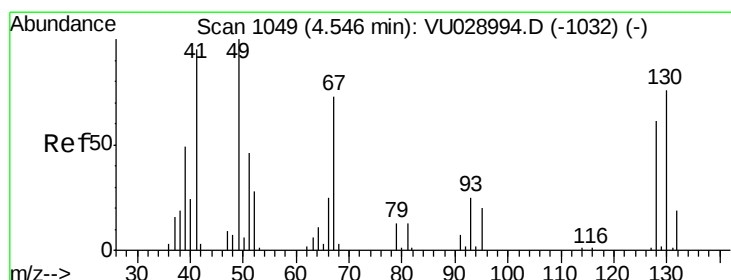
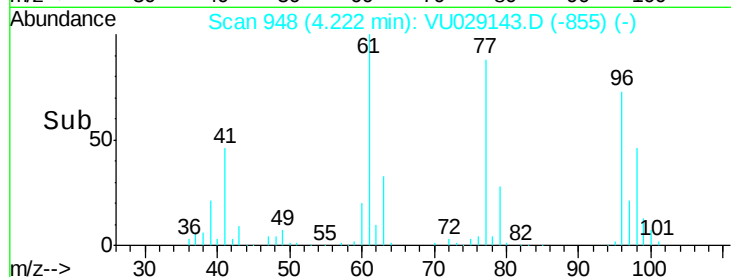
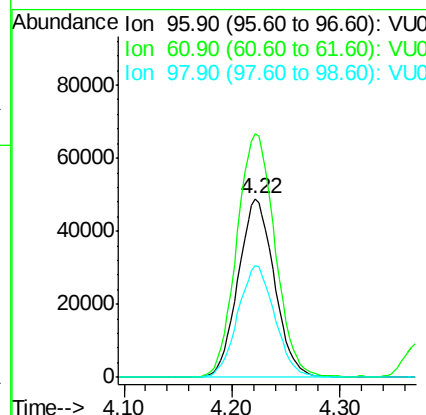
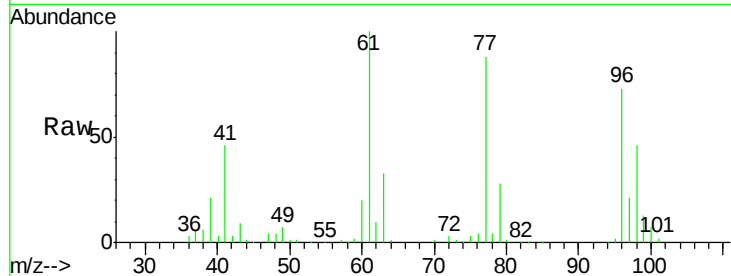
cis-1,2-Dichloroethene
Concen: 51.042 ug/l
RT: 4.22 min Scan# 948
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	113898		
61	144.0	0.0	285.6	
98	63.7	0.0	130.2	

Manual Integrations
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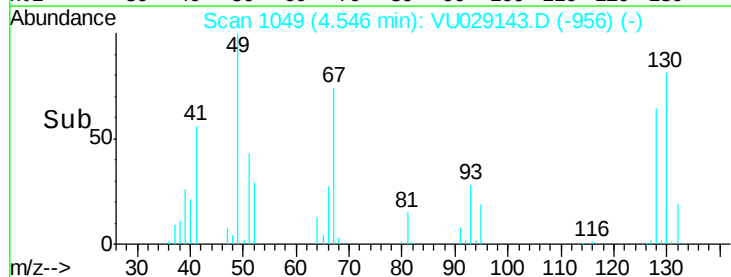
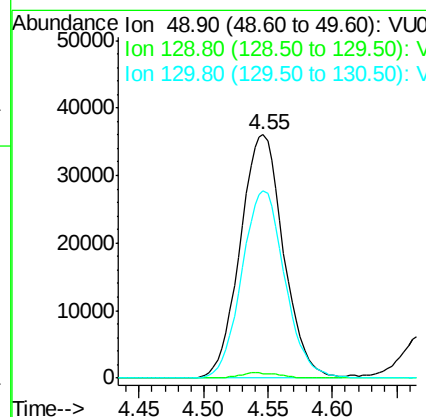
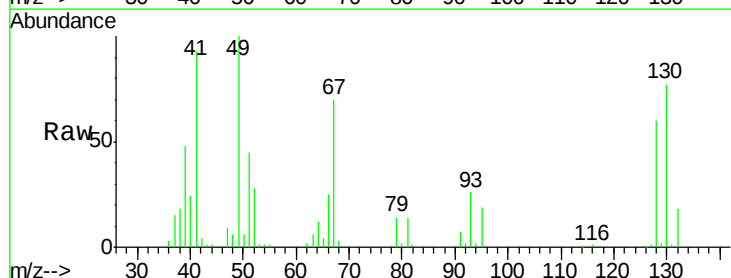
MMDadoda
1/14/2019 10:58:57 AM

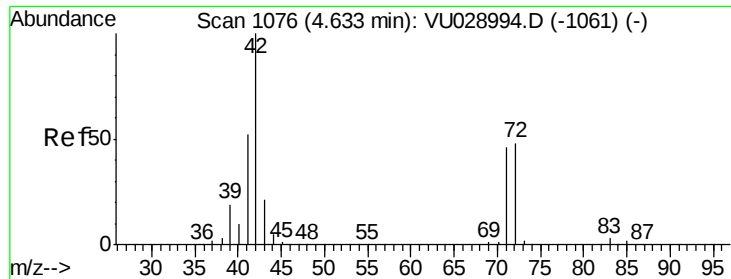


#28

Bromochloromethane
Concen: 53.491 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	84200		
129	1.9	0.0	3.4	
130	76.6	62.9	94.3	





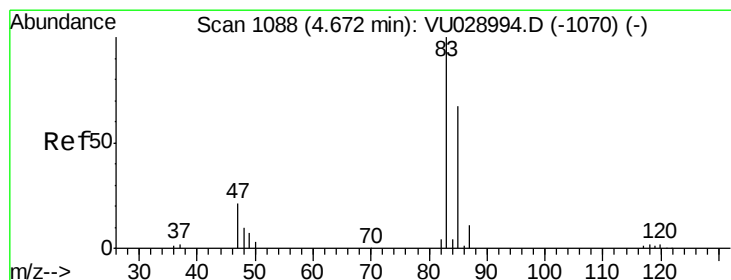
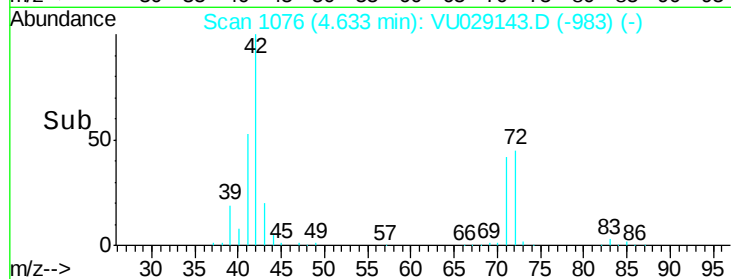
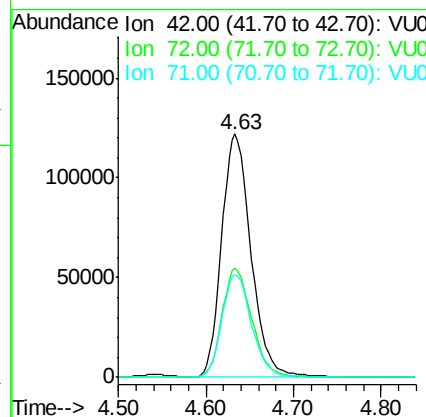
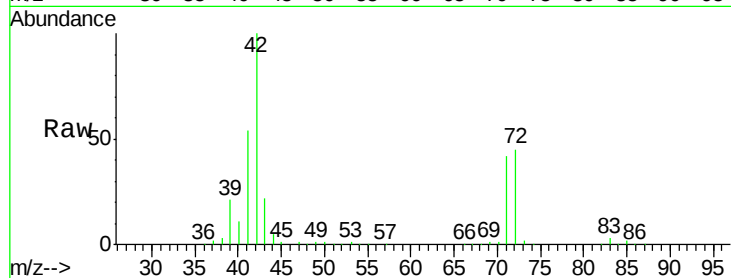
#29
Tetrahydrofuran
Concen: 262.032 ug/l
RT: 4.63 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.5	38.3	57.5
71	42.8	36.1	54.1

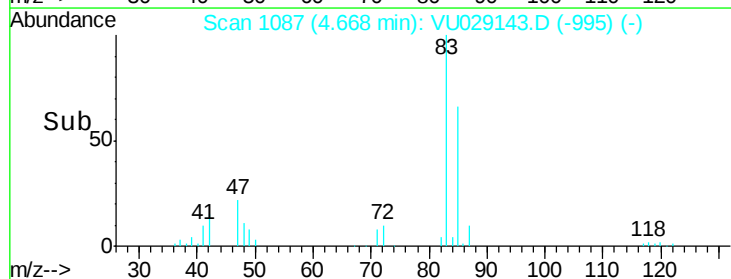
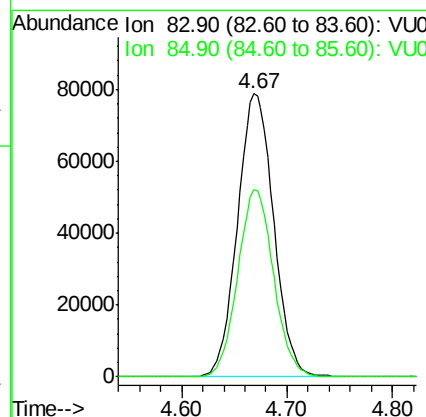
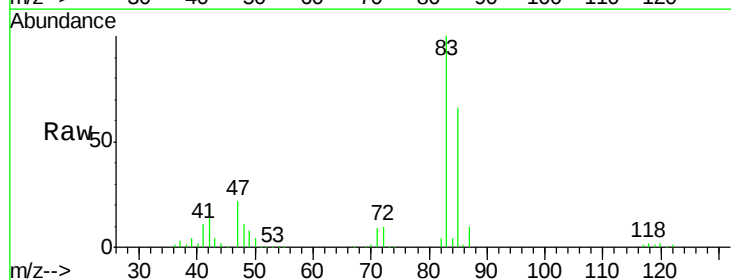
Manual Integrations
APPROVED

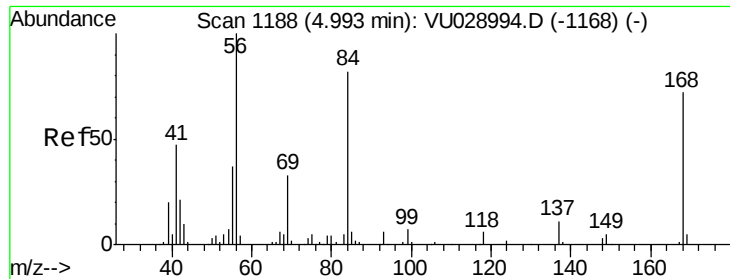
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1/14/2019 10:58:57 AM



#30
Chloroform
Concen: 53.545 ug/l
RT: 4.67 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	53.4	80.0





#31

Cyclohexane

Concen: 50.096 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

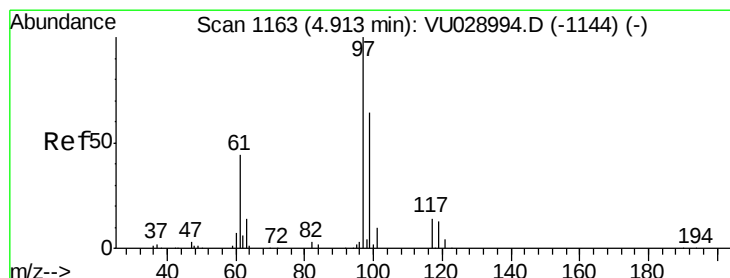
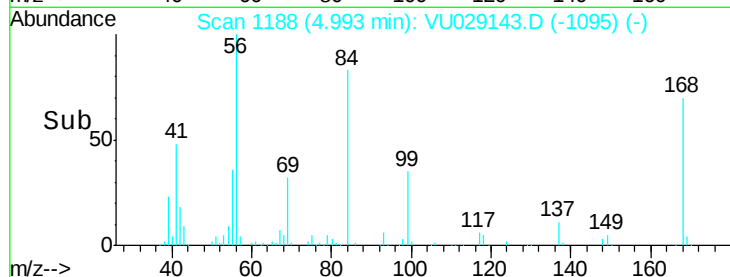
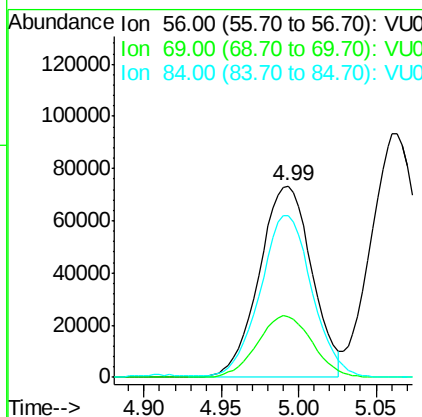
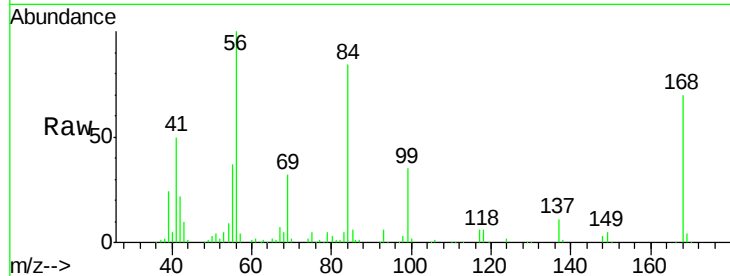
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	173836
Ion	Ratio	Lower	Upper
56	100		
69	31.9	26.7	40.1
84	83.3	65.7	98.5

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 52.205 ug/l

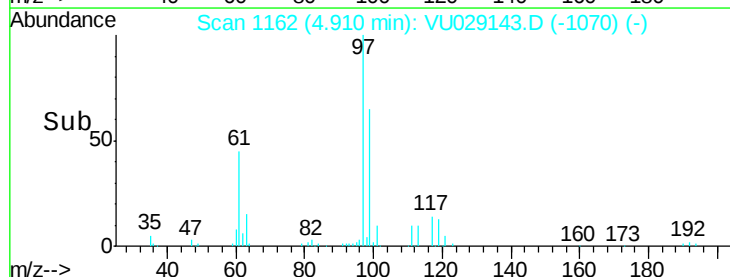
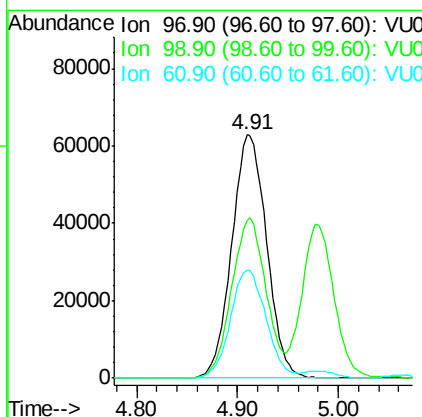
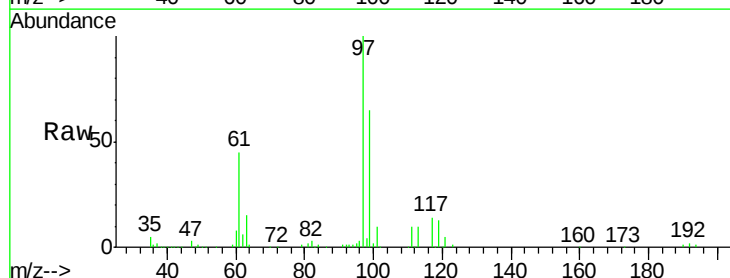
RT: 4.91 min Scan# 1162

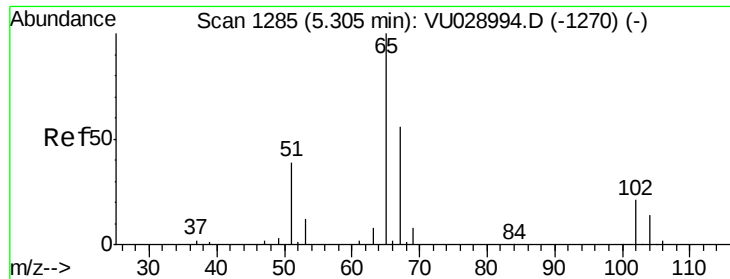
Delta R.T. -0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tgt Ion:	97	Resp:	151037
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.0	76.4
61	45.5	34.4	51.6





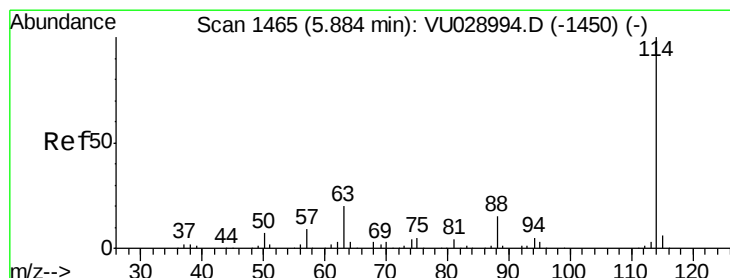
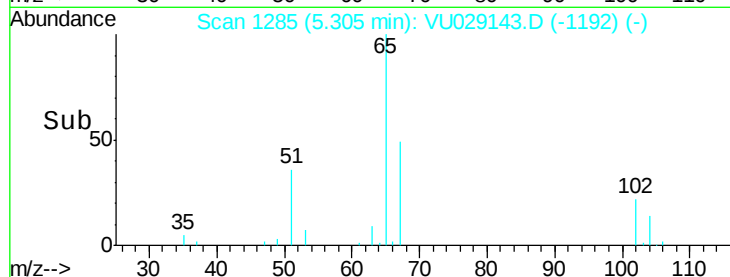
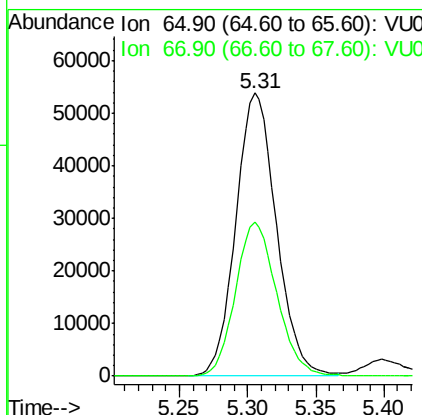
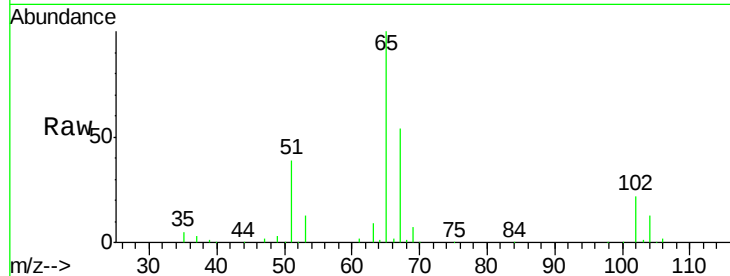
#33
 1,2-Dichloroethane-d4
 Concen: 53.120 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.3	0.0	111.0	

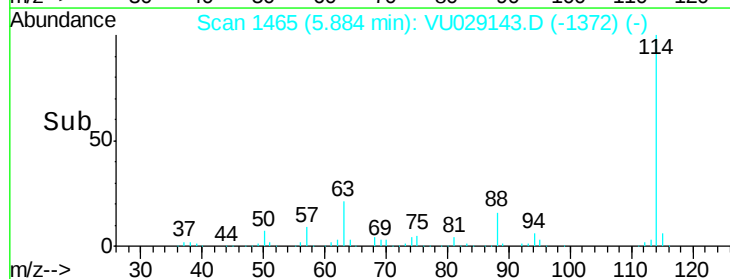
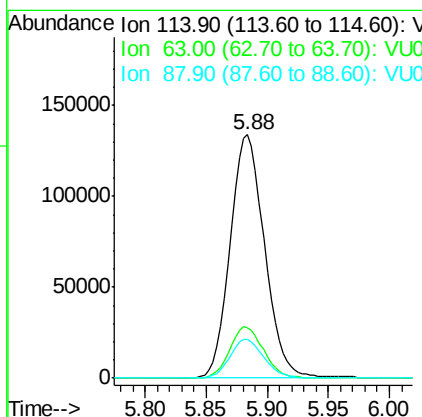
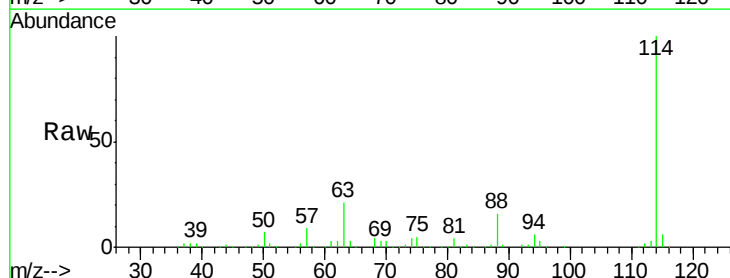
Manual Integrations
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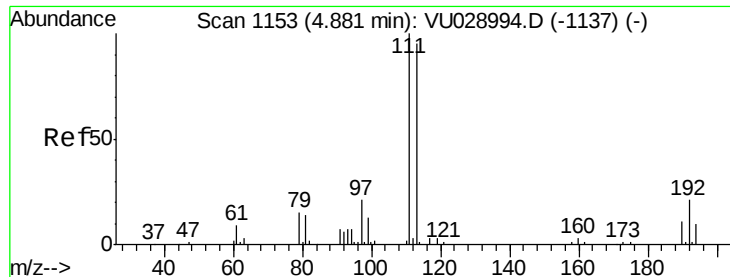
MMDadoda
 1/14/2019 10:58:57 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.9	0.0	40.2	
88	16.0	0.0	30.4	





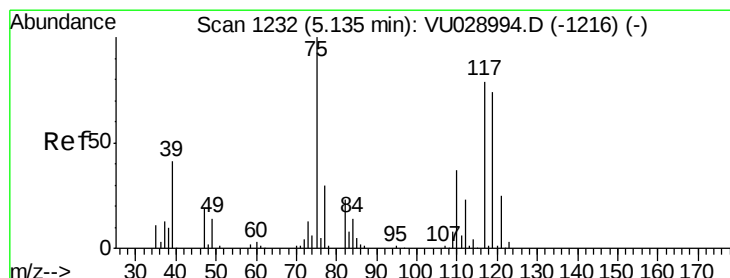
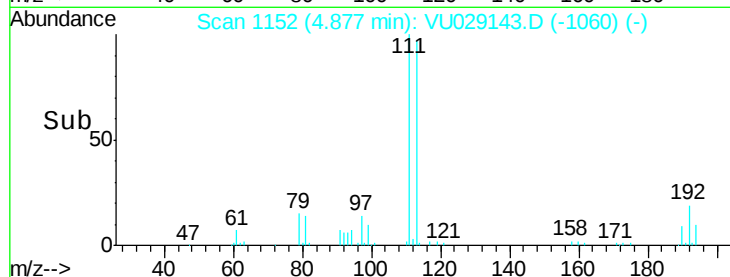
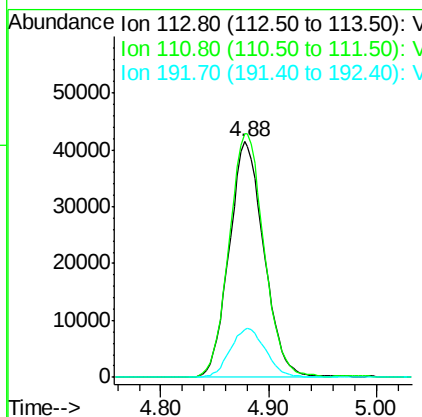
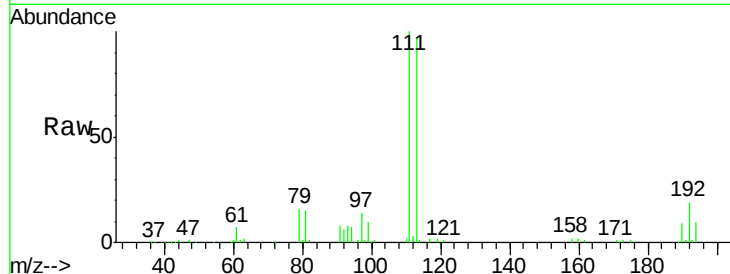
#35
 Dibromofluoromethane
 Concen: 54.617 ug/l
 RT: 4.88 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.4	122.2
192	21.1	16.8	25.2

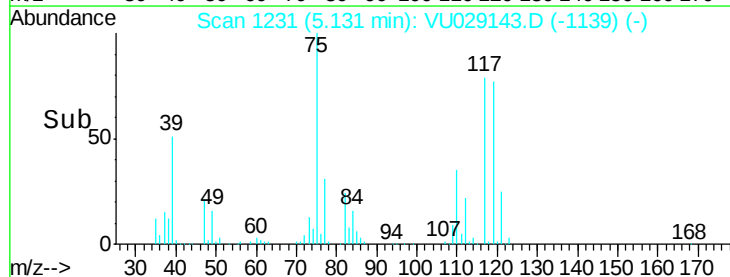
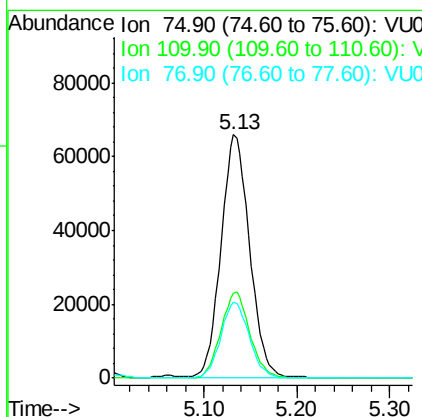
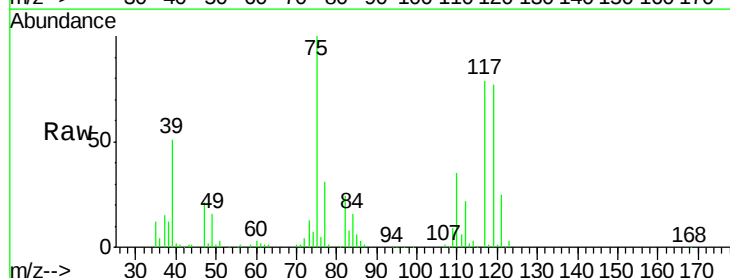
Manual Integrations
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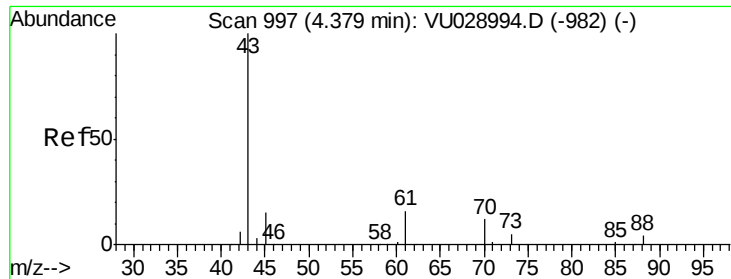
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 1/14/2019 10:58:57 AM



#36
 1,1-Dichloropropene
 Concen: 53.431 ug/l
 RT: 5.13 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.9	18.4	55.4
77	31.2	25.1	37.7





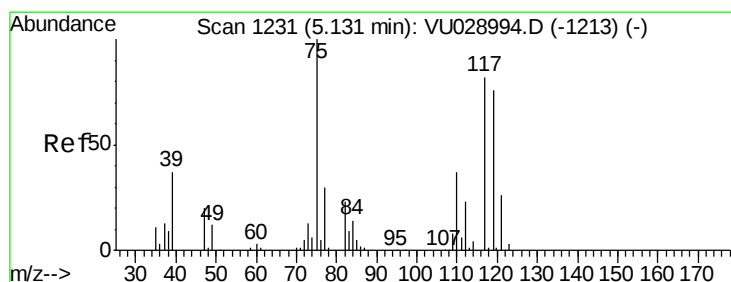
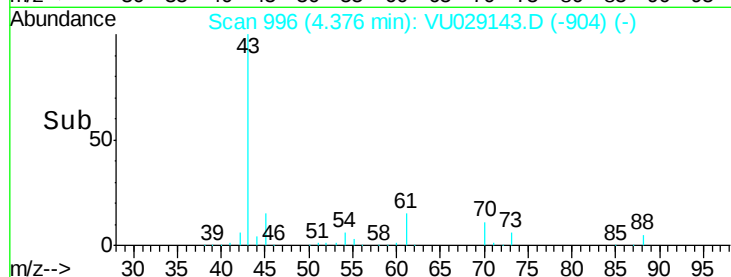
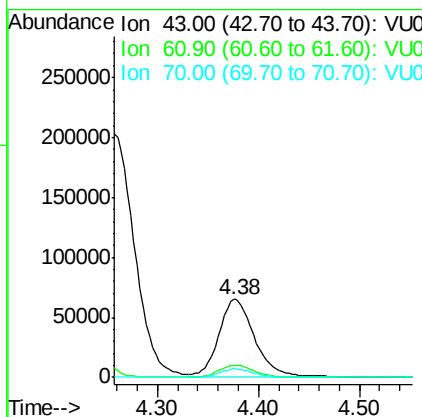
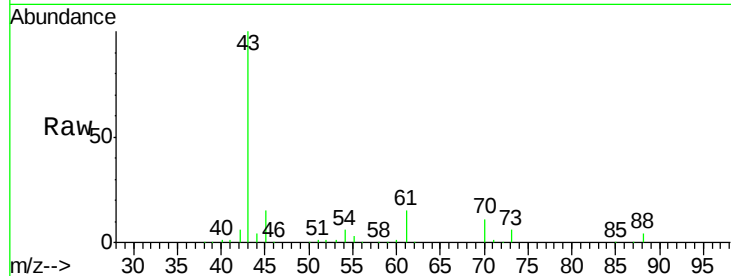
#37
Ethyl Acetate
Concen: 54.901 ug/l
RT: 4.38 min Scan# 996
Delta R.T. -0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	12.6	18.8
70	10.6	9.3	13.9

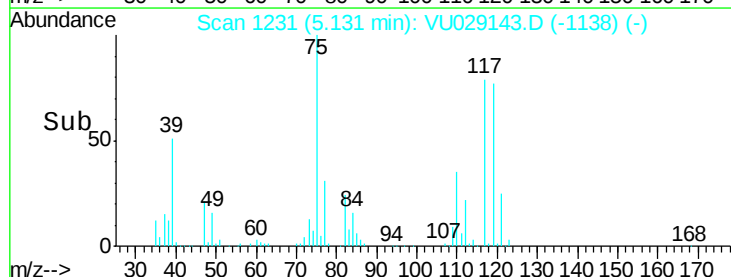
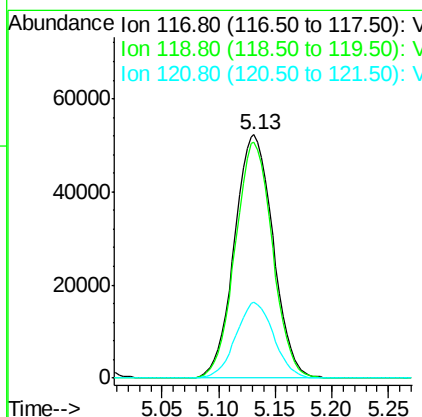
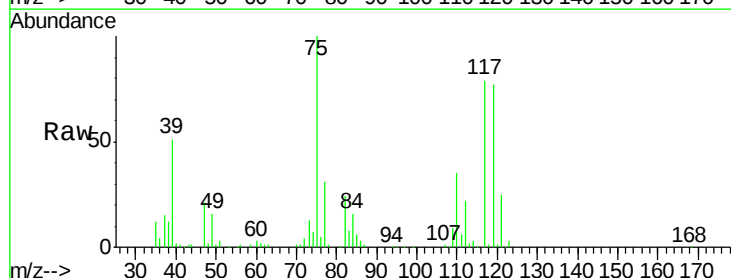
Manual Integrations
APPROVED

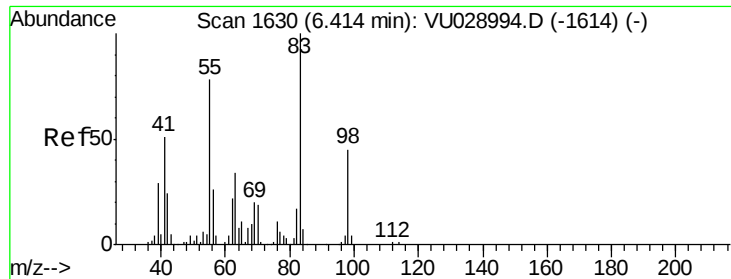
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1/14/2019 10:58:57 AM



#38
Carbon Tetrachloride
Concen: 56.711 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	74.6	111.8
121	31.1	25.0	37.6





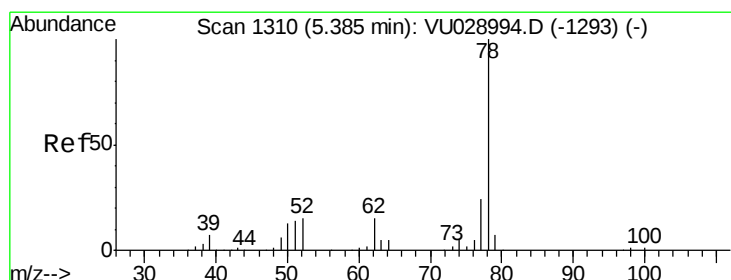
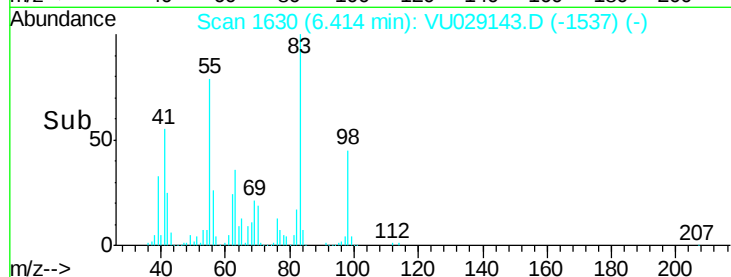
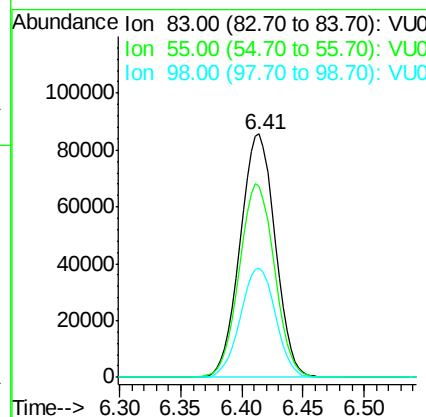
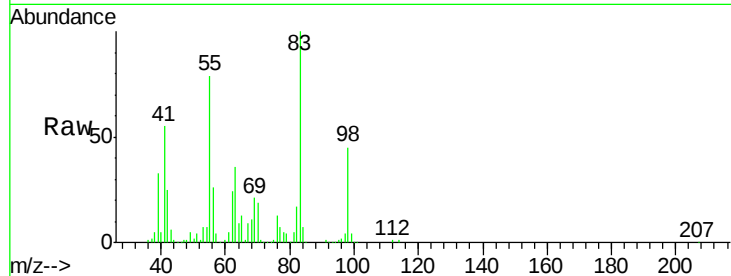
#39
Methvlcvclohexane
Concen: 52.751 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.5	62.4	93.6
98	45.1	36.2	54.2

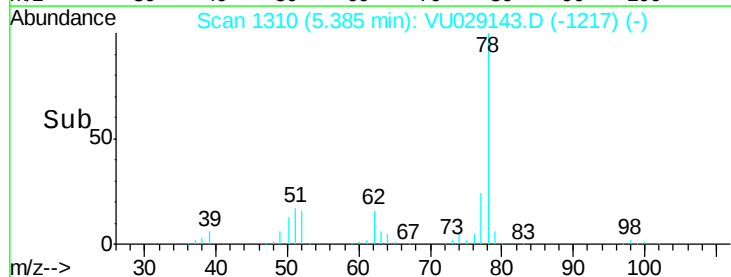
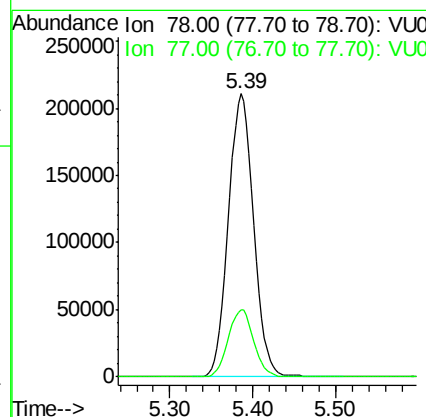
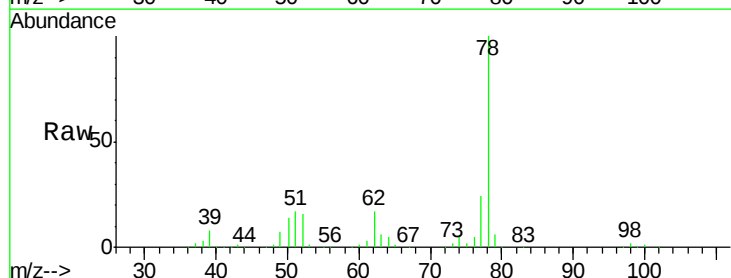
Manual Integrations
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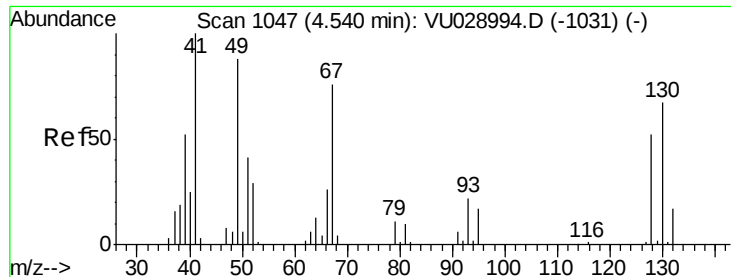
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1/14/2019 10:58:57 AM



#40
Benzene
Concen: 54.316 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3





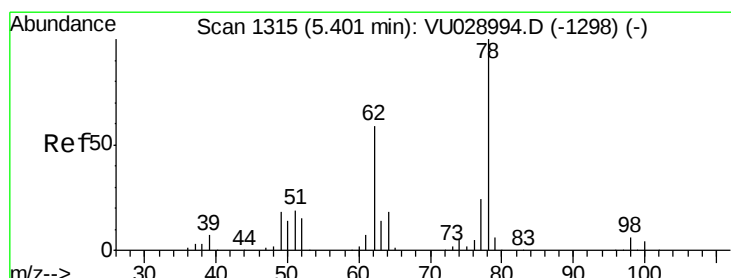
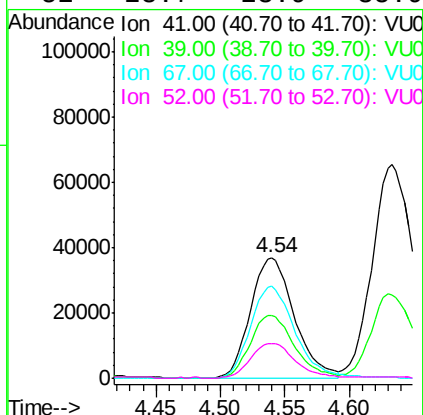
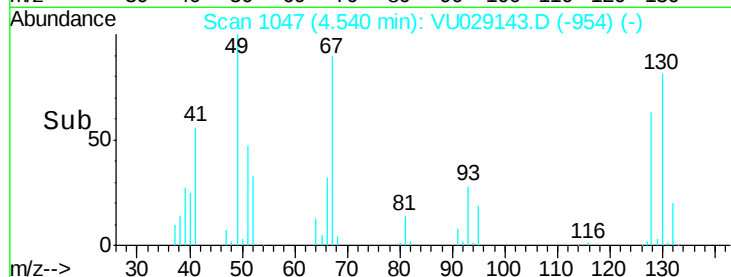
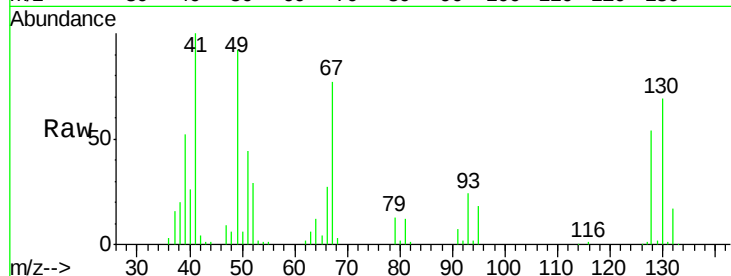
#41
Methacrylonitrile
Concen: 56.707 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.4	42.3	63.5	
67	78.3	64.4	96.6	
52	28.7	23.9	35.9	

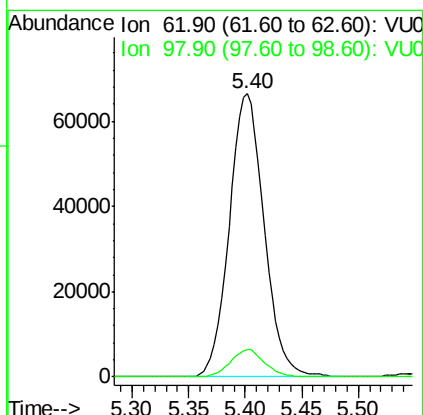
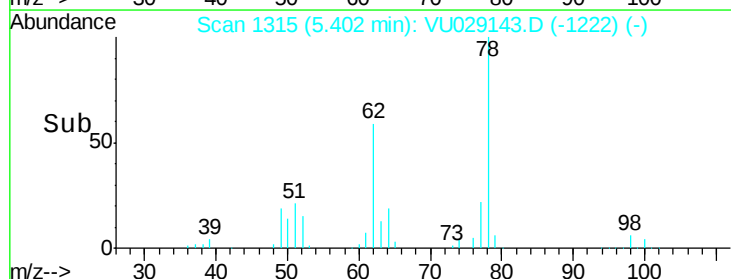
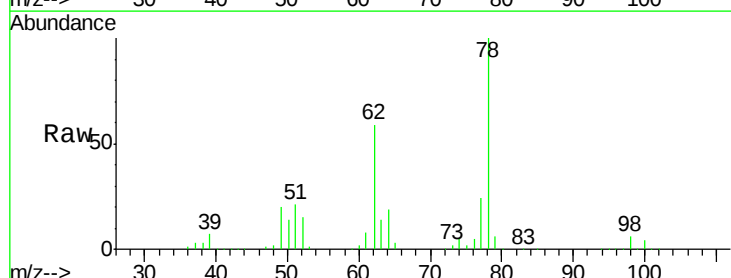
Manual Integrations
APPROVED

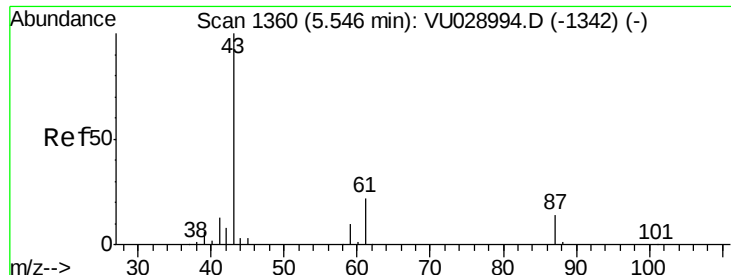
MMDadoda
1/14/2019 10:58:57 AM



#42
1,2-Dichloroethane
Concen: 57.749 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.5	0.0	19.6	





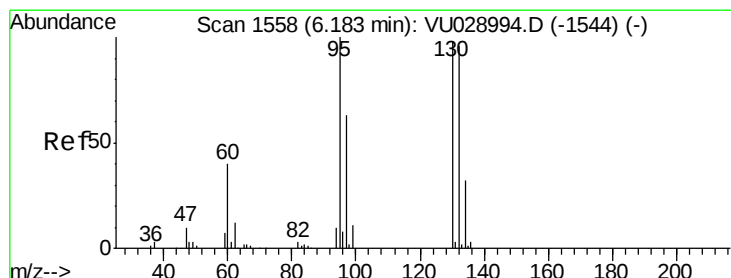
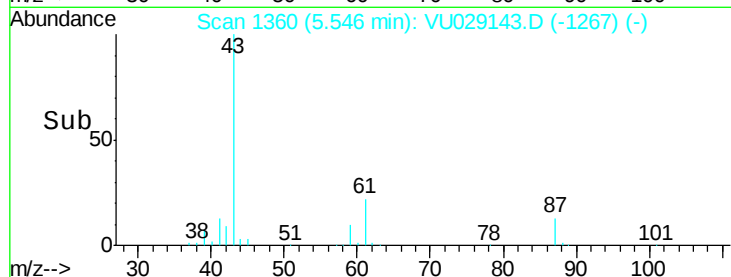
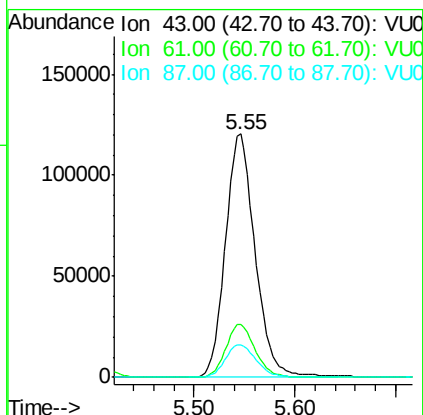
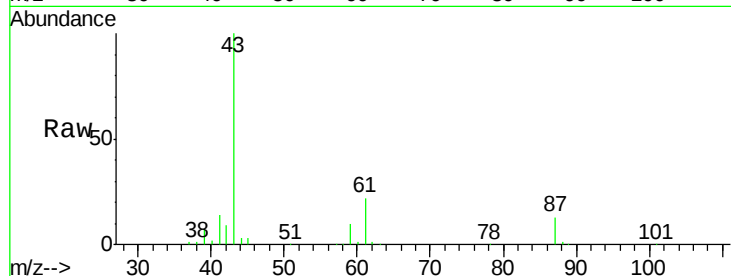
#43
Isopropyl Acetate
Concen: 55.503 ug/l
RT: 5.55 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.9	17.8	26.6
87	13.9	11.3	16.9

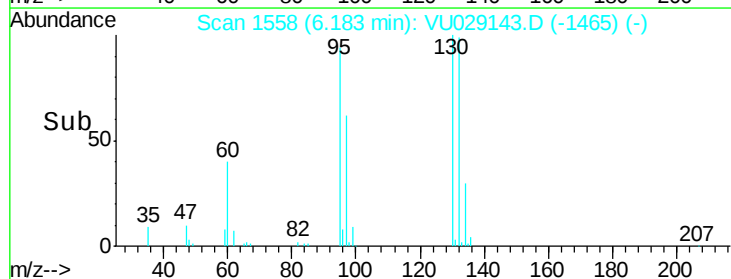
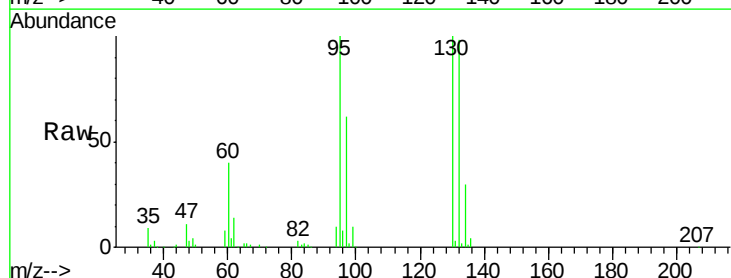
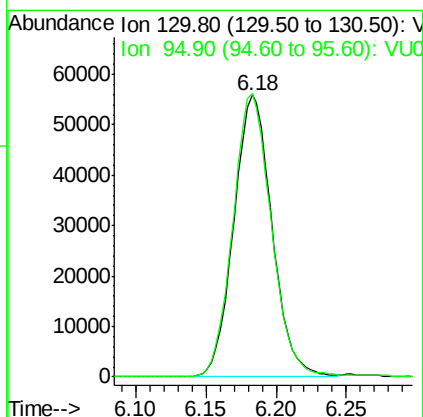
Manual Integrations
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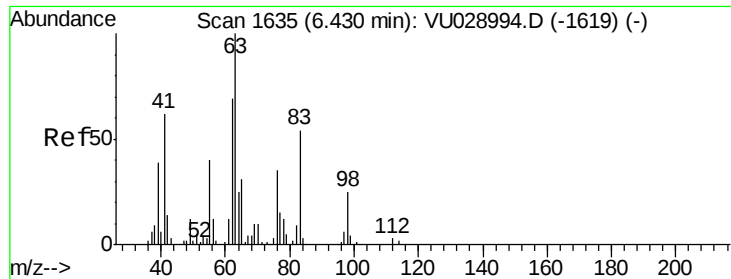
MMDadoda
1/14/2019 10:58:57 AM



#44
Trichloroethene
Concen: 52.149 ug/l
RT: 6.18 min Scan# 1558
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.5	0.0	205.0





#45

1,2-Dichloropropane

Concen: 56.483 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 122346

Ion Ratio Lower Upper

63 100

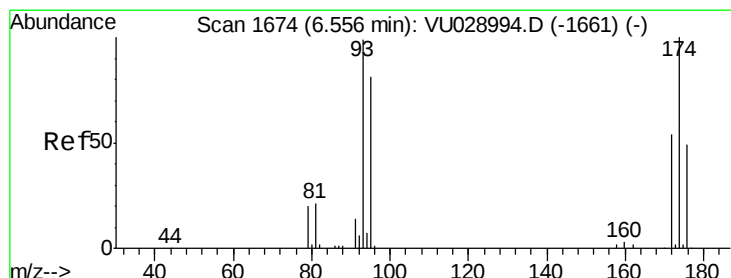
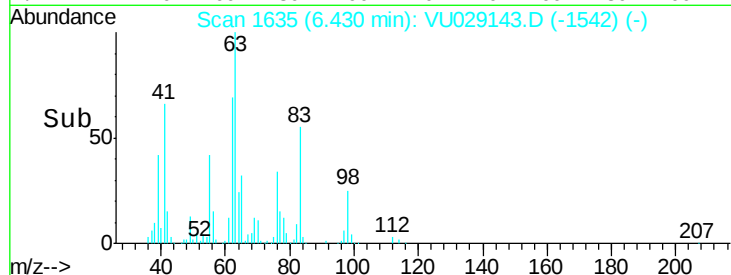
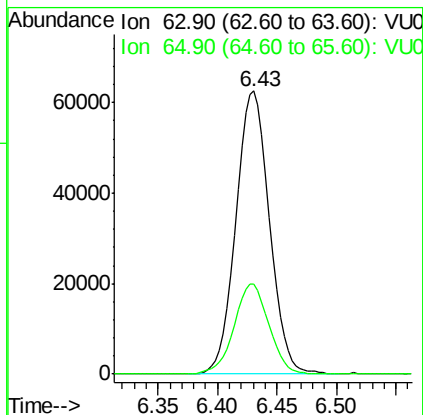
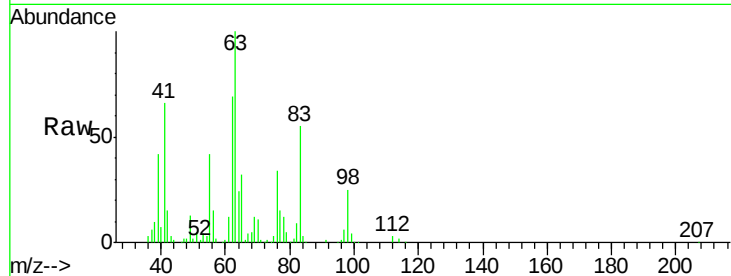
65 31.8 25.1 37.7

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#46

Dibromomethane

Concen: 56.167 ug/l

RT: 6.56 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

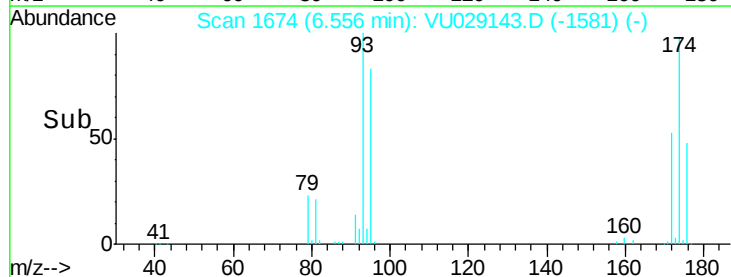
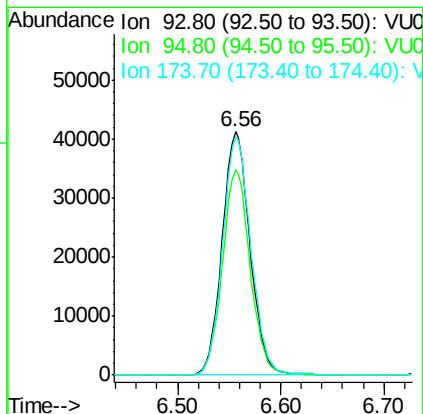
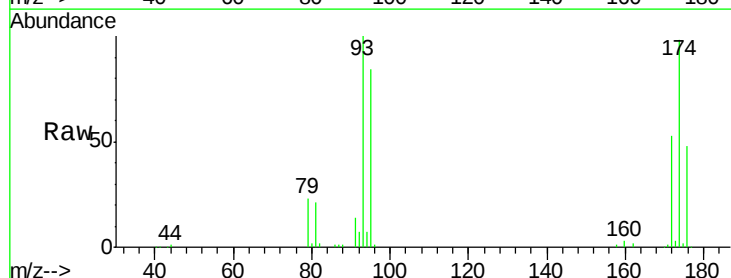
Tgt Ion: 93 Resp: 77774

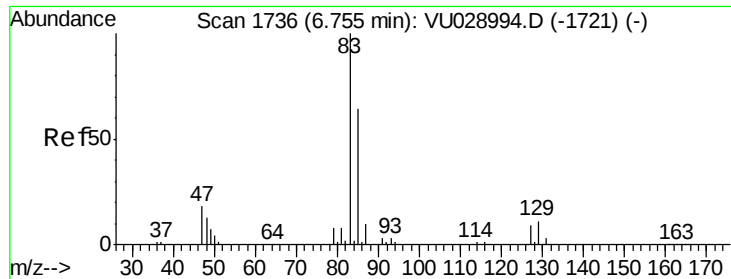
Ion Ratio Lower Upper

93 100

95 83.9 67.2 100.8

174 98.7 82.6 123.8





#47

Bromodichloromethane

Concen: 57.501 ug/l

RT: 6.75 min Scan# 1735

Delta R.T. -0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

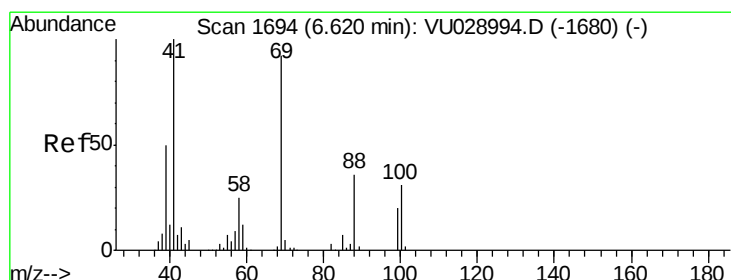
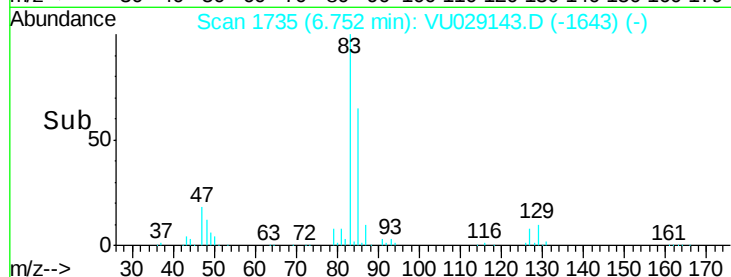
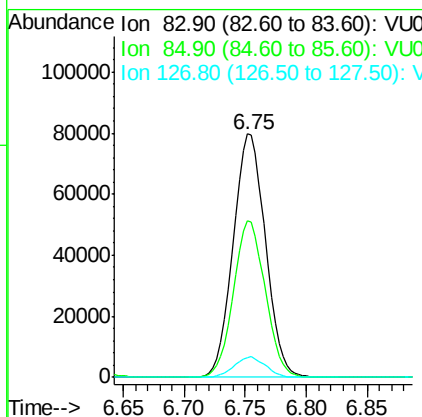
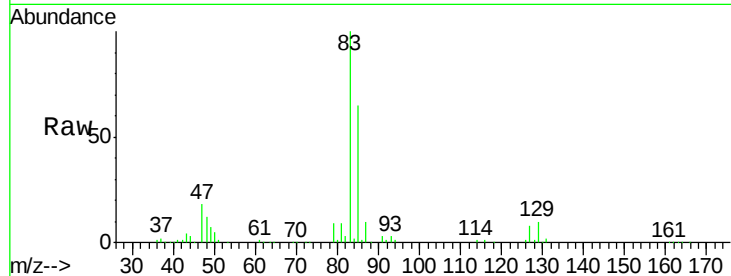
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	146594
Ion Ratio	Lower	Upper	
83	100		
85	64.6	51.4	77.2
127	8.3	7.0	10.4

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#48

Methyl methacrylate

Concen: 57.507 ug/l

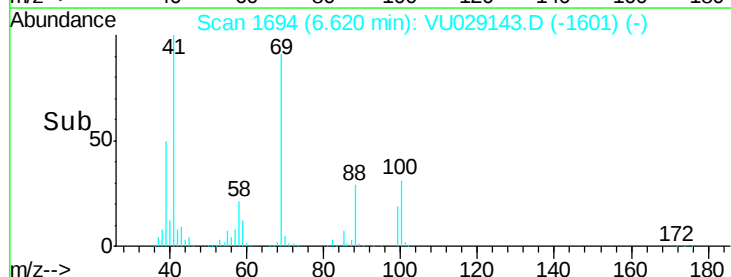
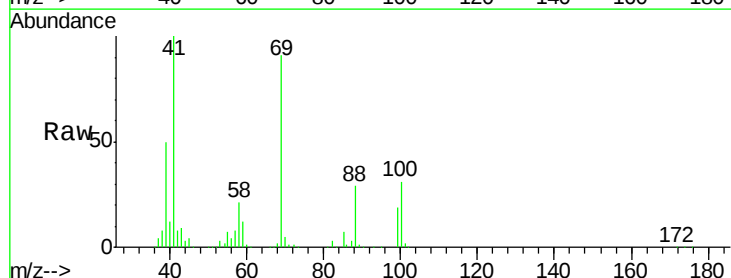
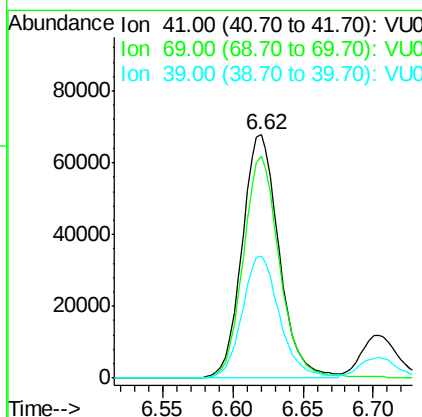
RT: 6.62 min Scan# 1694

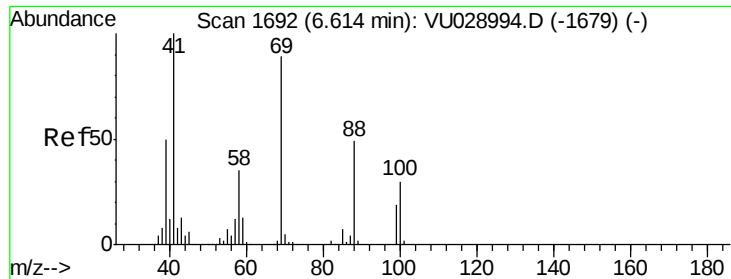
Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tgt Ion:	41	Resp:	123982
Ion Ratio	Lower	Upper	
41	100		
69	90.2	73.6	110.4
39	50.5	39.6	59.4





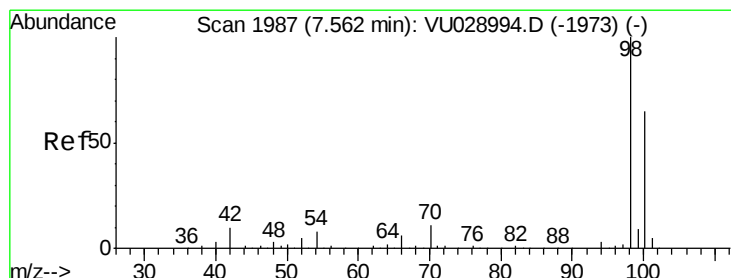
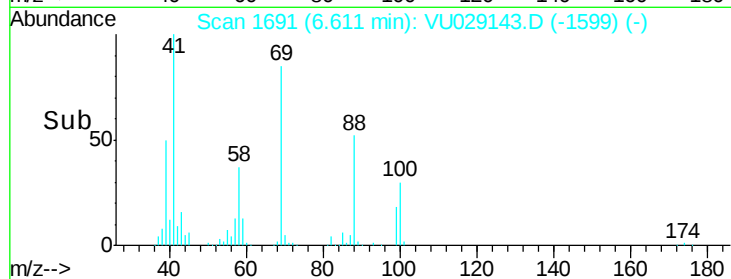
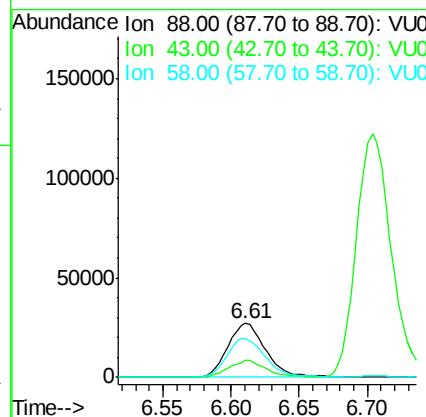
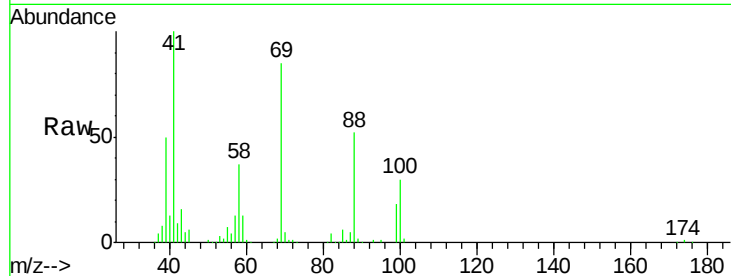
#49
1,4-Dioxane
Concen: 1008.168 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.4	23.0	34.4
58	74.4	57.9	86.9

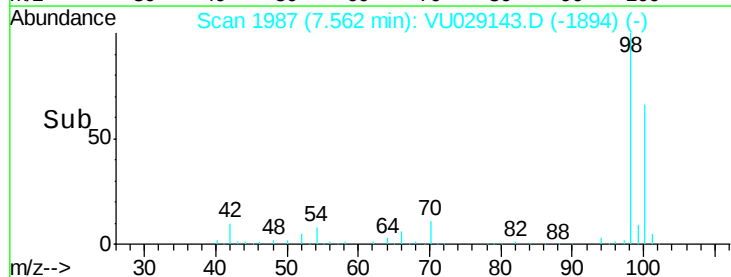
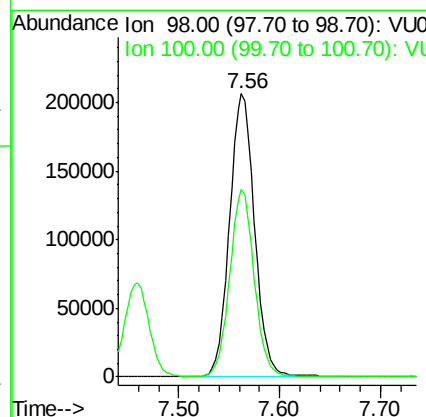
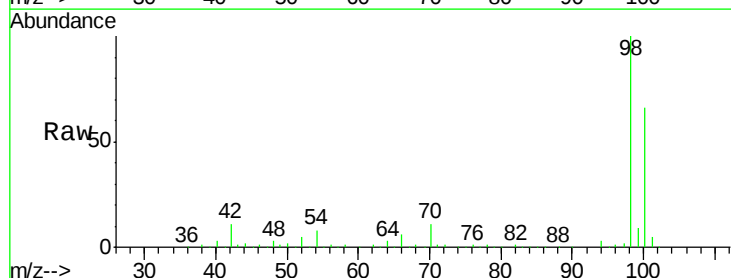
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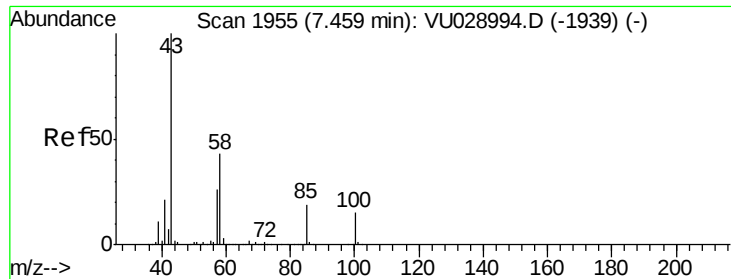
MMDadoda
1/14/2019 10:58:57 AM



#50
Toluene-d8
Concen: 53.382 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 279.760 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 842999

Ion Ratio Lower Upper

43 100

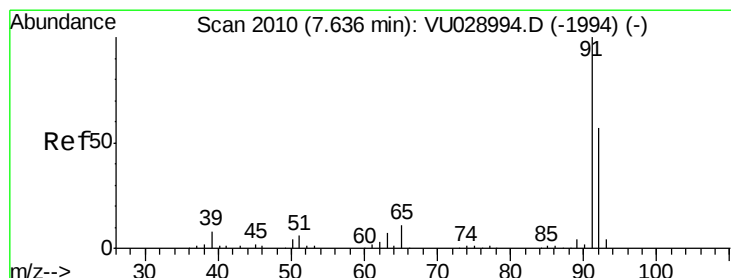
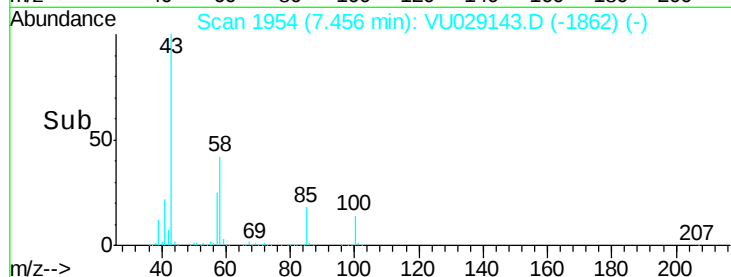
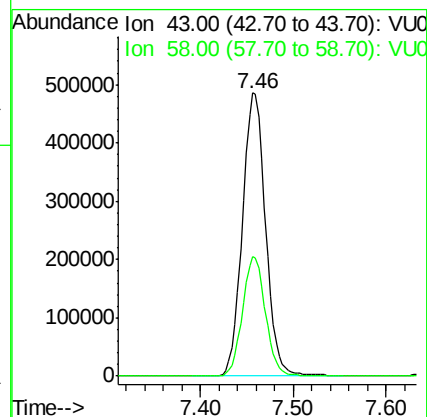
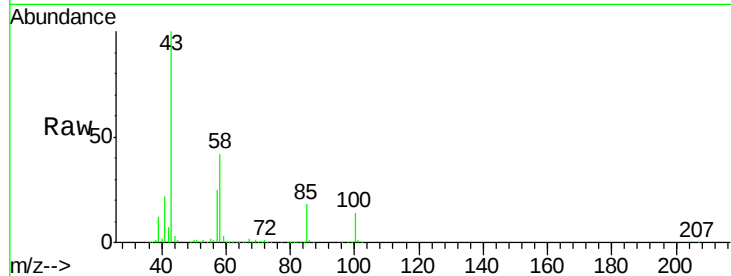
58 41.6 33.9 50.9

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#52

Toluene

Concen: 54.441 ug/l

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU029143.D

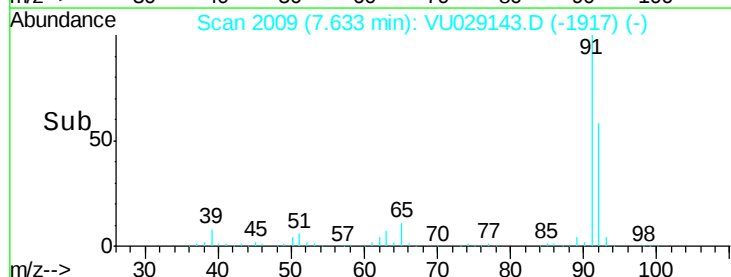
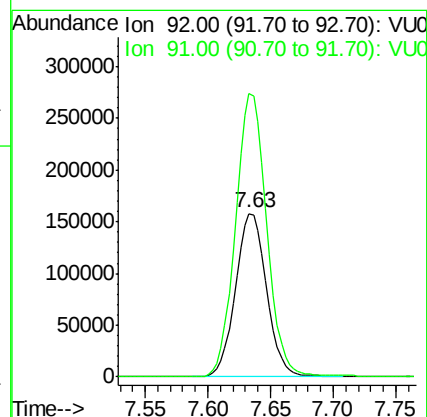
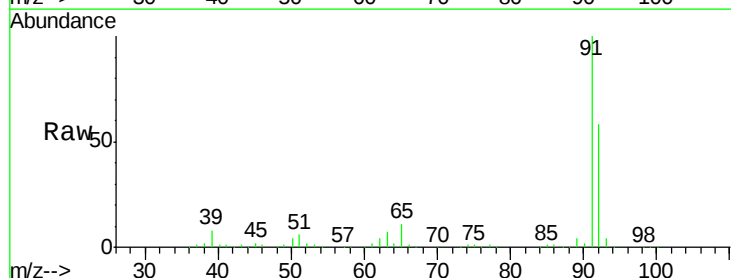
Acq: 11 Jan 2019 15:44

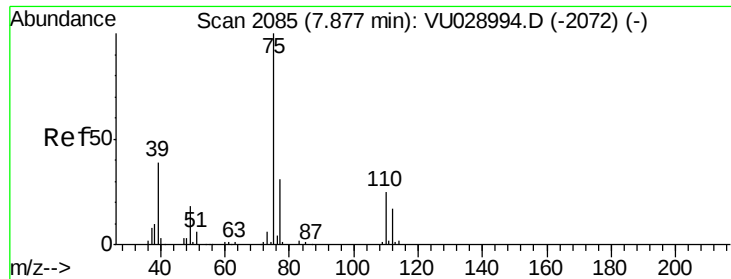
Tgt Ion: 92 Resp: 271841

Ion Ratio Lower Upper

92 100

91 174.4 139.8 209.8





#53

t-1,3-Dichloropropene

Concen: 54.414 ug/l

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 166646

Ion Ratio Lower Upper

75 100

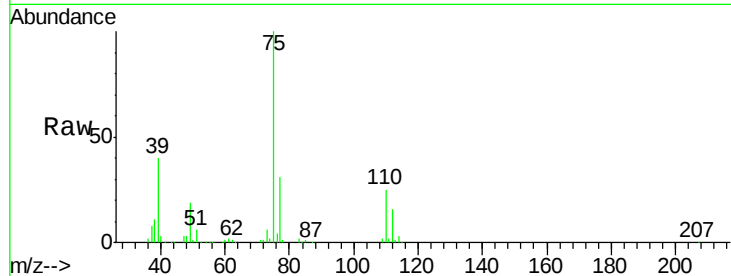
77 31.2 25.0 37.4

Manual Integrations

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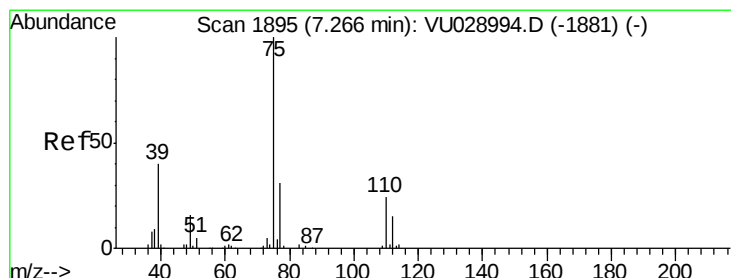
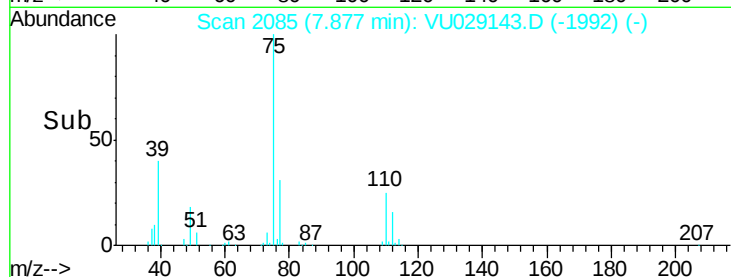
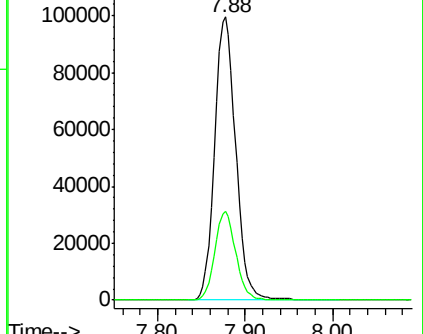
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Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 54.987 ug/l

RT: 7.27 min Scan# 1895

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

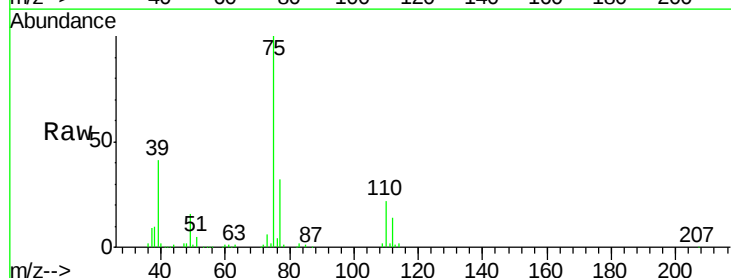
Tgt Ion: 75 Resp: 181967

Ion Ratio Lower Upper

75 100

77 31.8 25.0 37.6

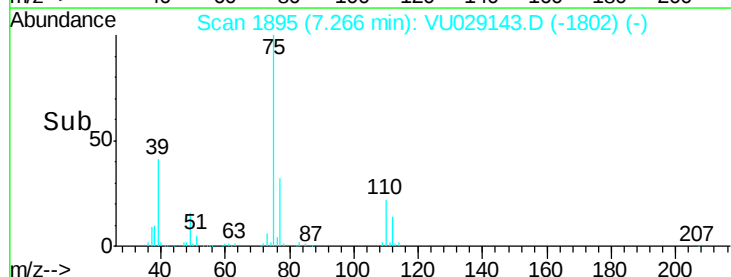
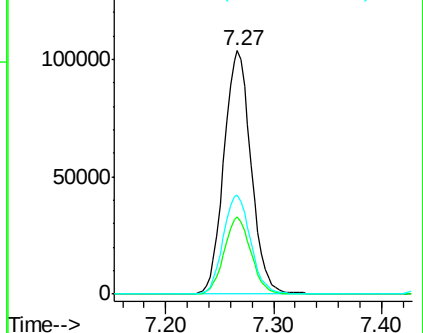
39 40.6 32.2 48.4

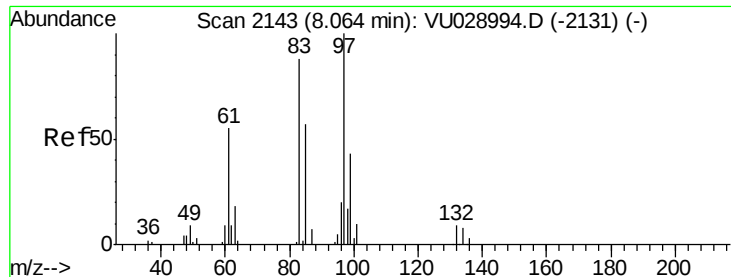


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





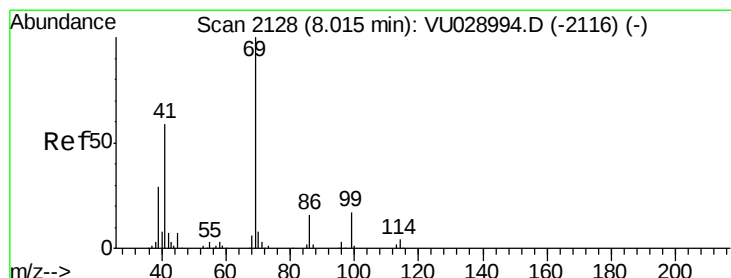
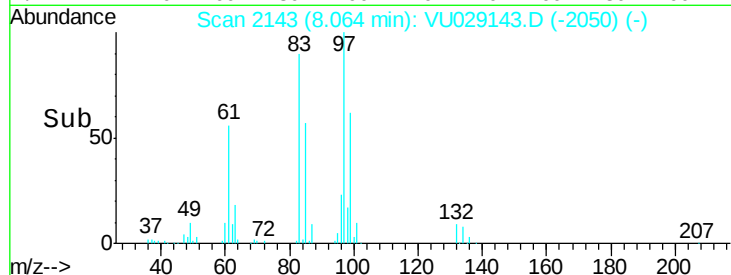
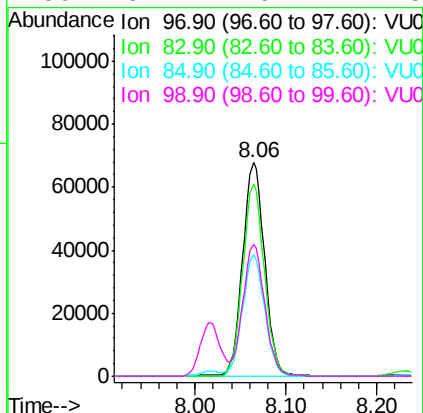
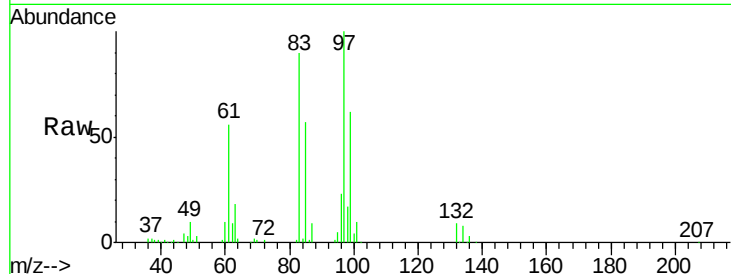
#55
 1,1,2-Trichloroethane
 Concen: 57.225 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	114474
Ion	Ratio	Lower	Upper
97	100		
83	90.2	69.8	104.8
85	56.8	47.3	70.9
99	61.7	49.7	74.5

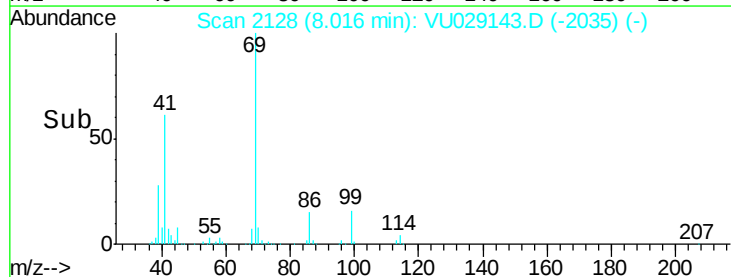
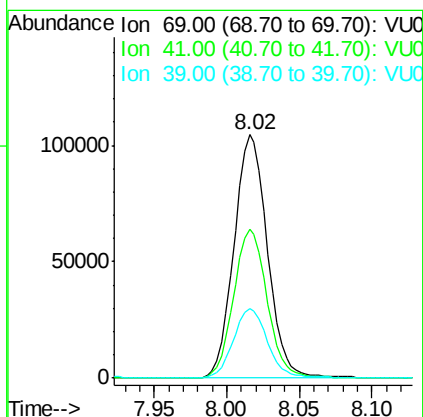
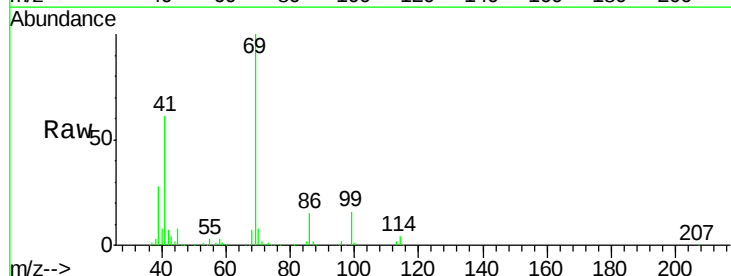
Manual Integrations
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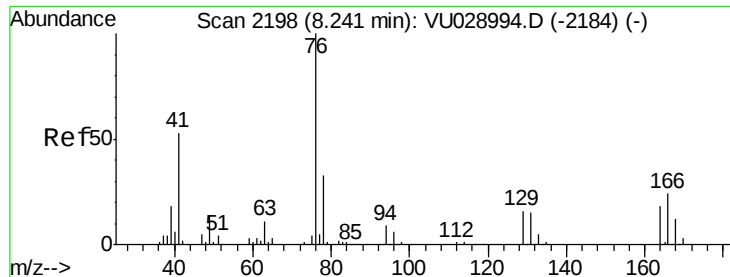
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#56
 Ethyl methacrylate
 Concen: 54.185 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Tgt Ion:	69	Resp:	166991
Ion	Ratio	Lower	Upper
69	100		
41	61.5	47.5	71.3
39	29.1	22.5	33.7





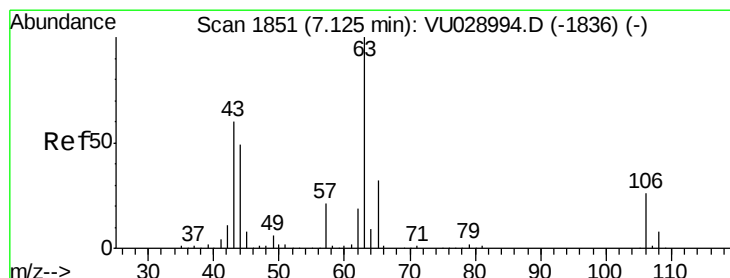
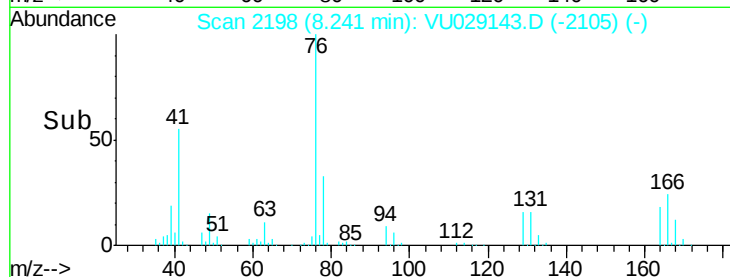
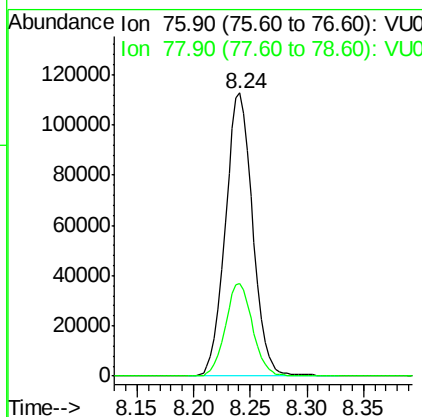
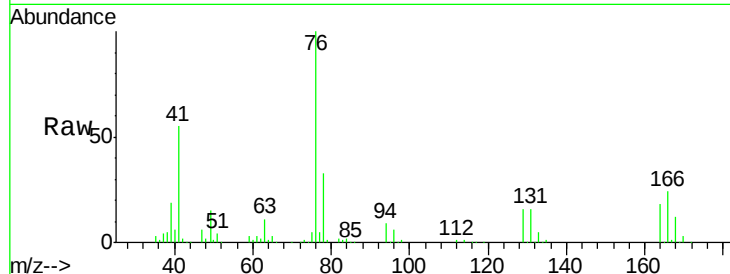
#57
 1,3-Dichloropropane
 Concen: 55.257 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.0	39.0

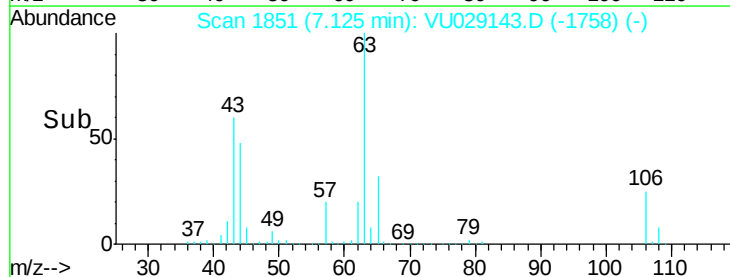
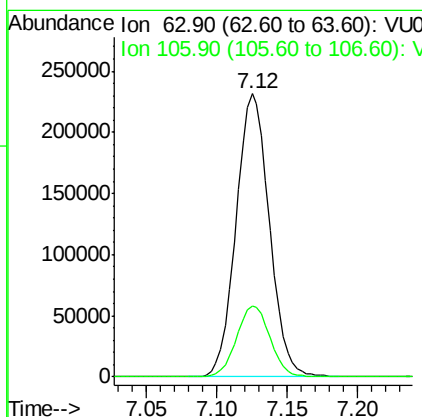
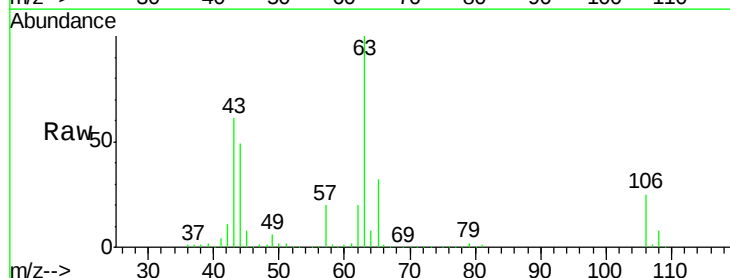
Manual Integrations
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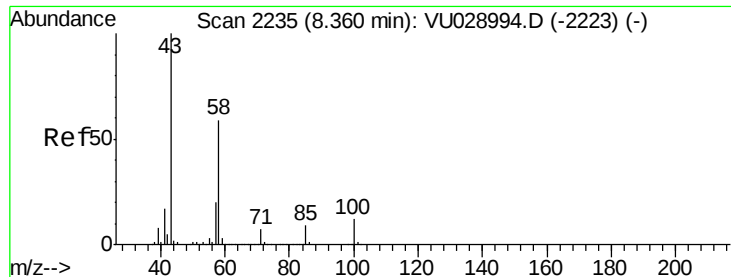
MMDadoda
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#58
 2-Chloroethyl Vinyl ether
 Concen: 282.895 ug/l
 RT: 7.12 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.3	20.6	31.0





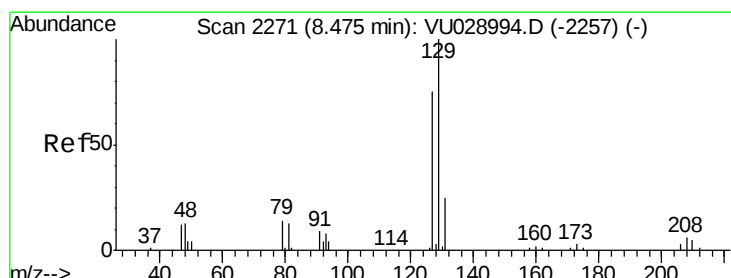
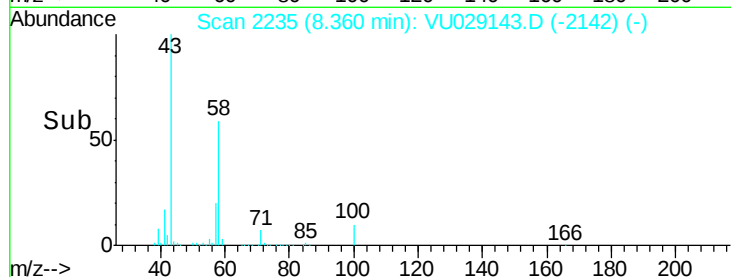
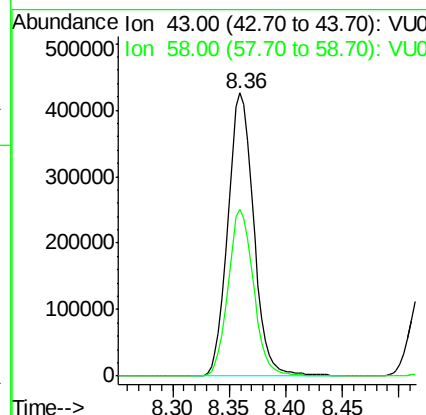
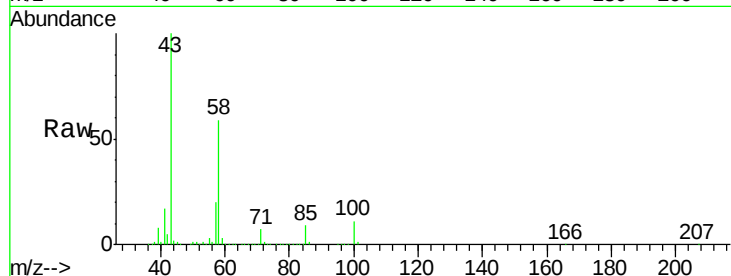
#59
2-Hexanone
Concen: 287.798 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 680736
Ion Ratio Lower Upper
43 100
58 58.1 29.8 89.4

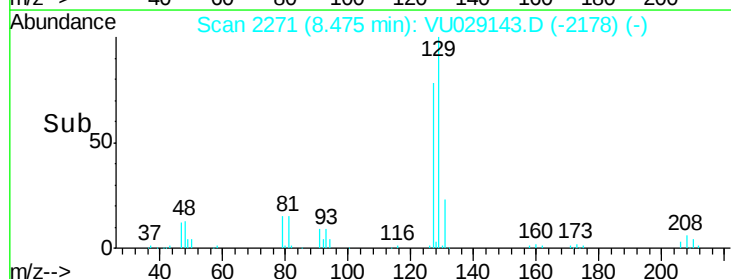
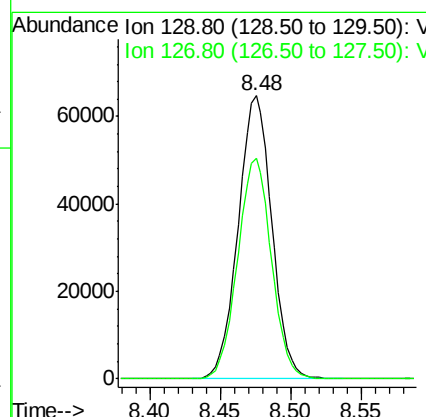
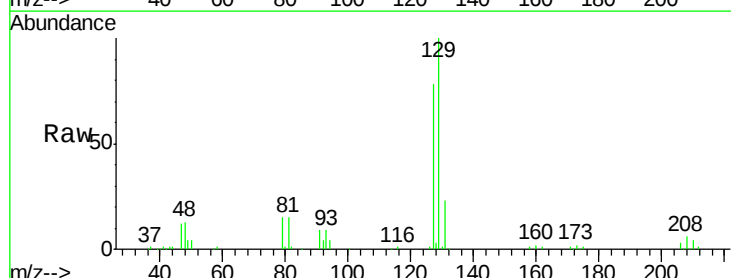
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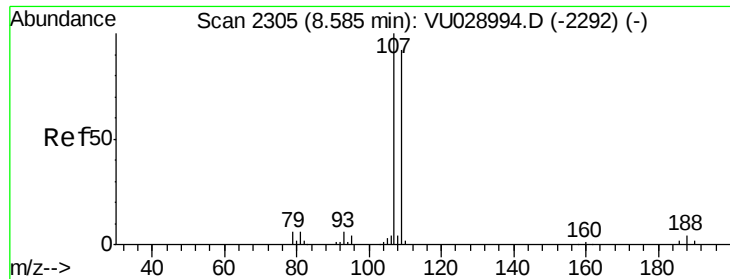
MMDadoda
1/14/2019 10:58:57 AM



#60
Dibromochloromethane
Concen: 54.772 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion: 129 Resp: 108550
Ion Ratio Lower Upper
129 100
127 78.0 38.0 114.0





#61

1,2-Dibromoethane

Concen: 54.600 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 118457

Ion Ratio Lower Upper

107 100

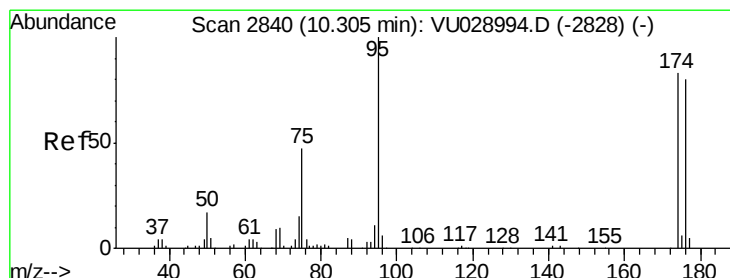
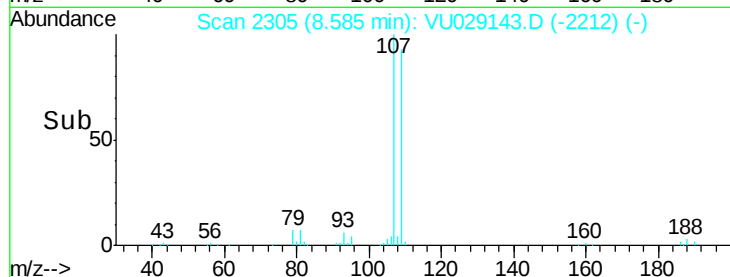
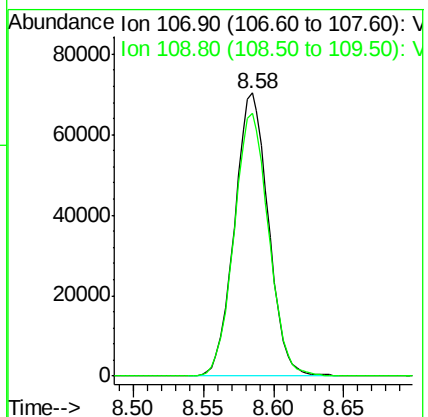
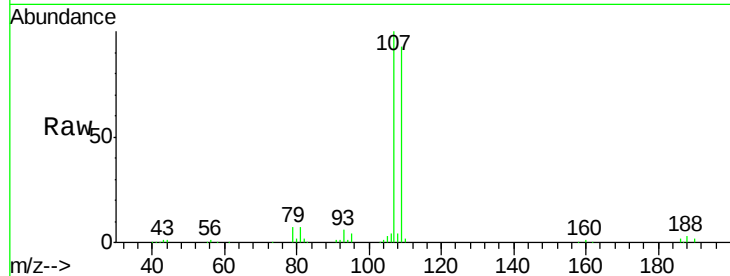
109 94.9 75.5 113.3

Manual Integrations

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1/14/2019 10:58:57 AM



#62

4-Bromofluorobenzene

Concen: 53.617 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

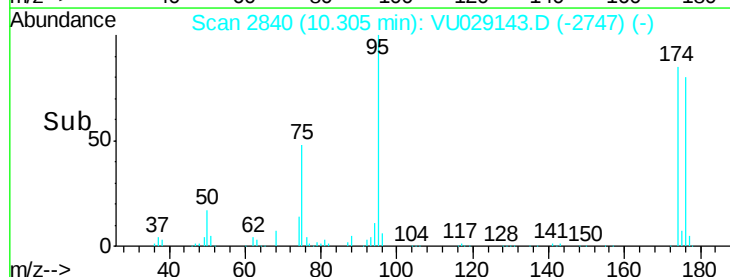
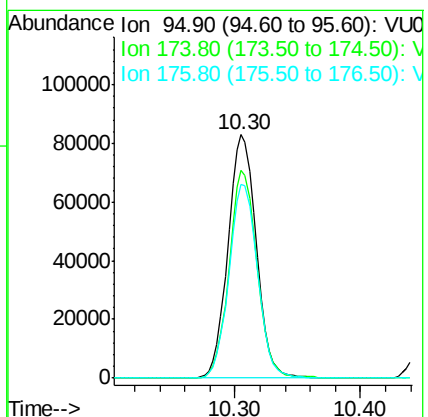
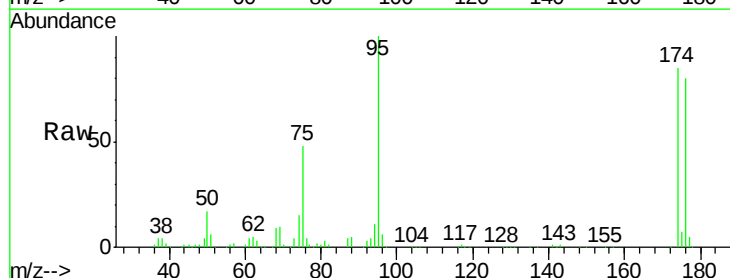
Tgt Ion: 95 Resp: 129727

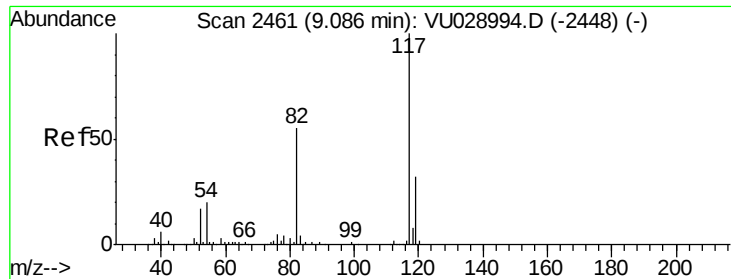
Ion Ratio Lower Upper

95 100

174 84.2 0.0 170.6

176 80.3 0.0 165.0





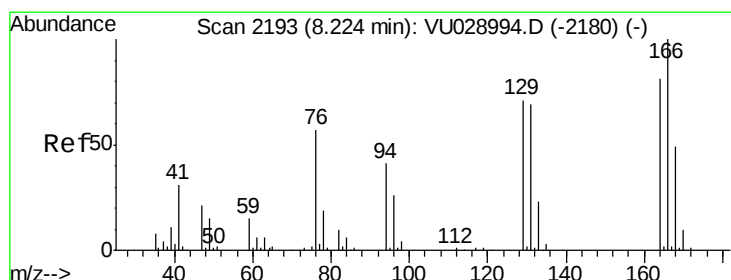
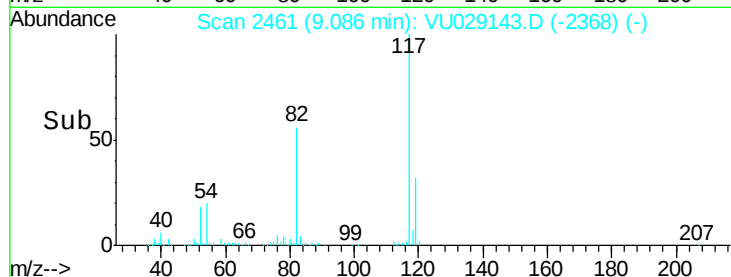
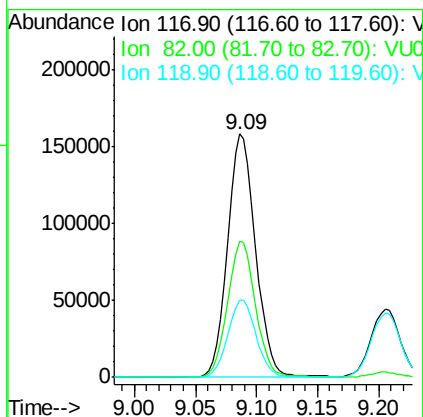
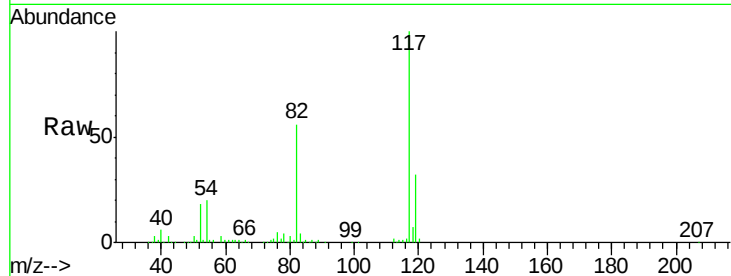
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	255016		
82	55.7	43.9	65.9	
119	31.6	26.0	39.0	

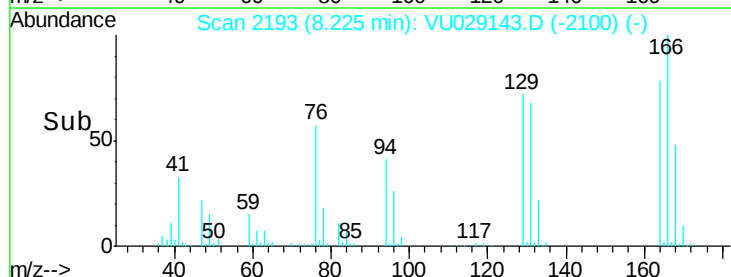
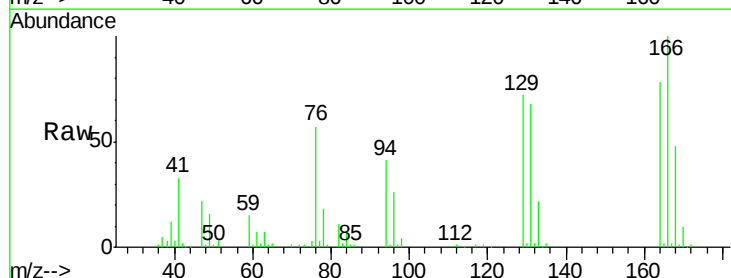
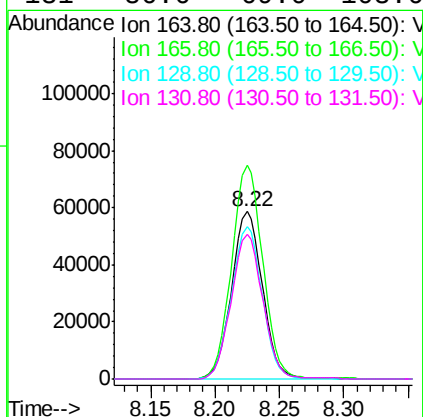
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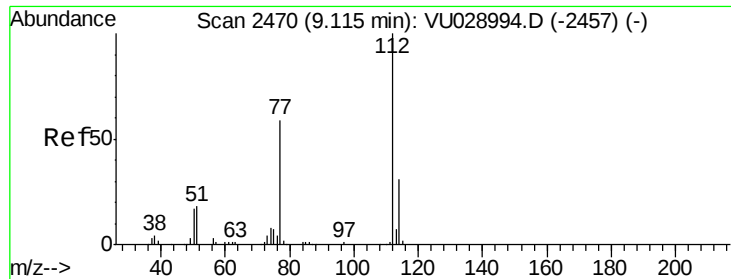
MMDadoda
1/14/2019 10:58:57 AM



#64
Tetrachloroethene
Concen: 53.274 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	97866		
166	127.4	99.4	149.0	
129	91.2	70.5	105.7	
131	86.6	69.0	103.6	





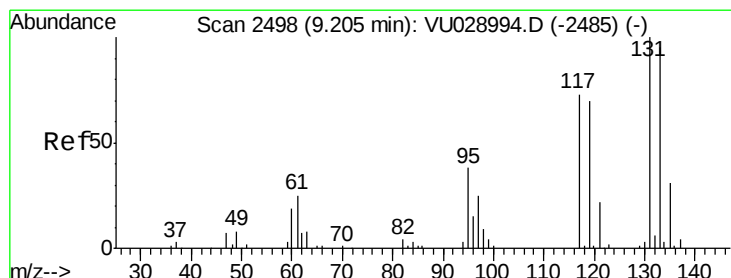
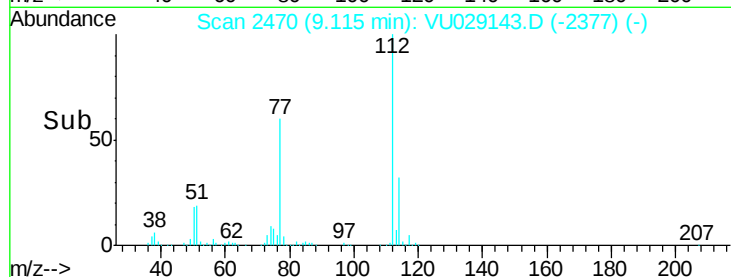
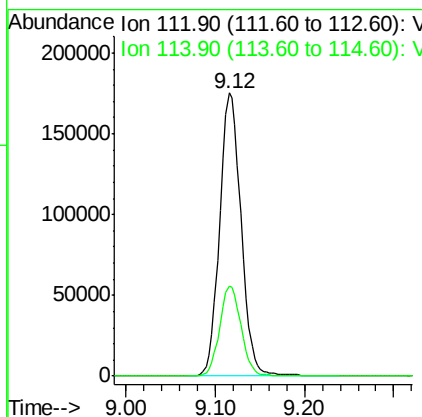
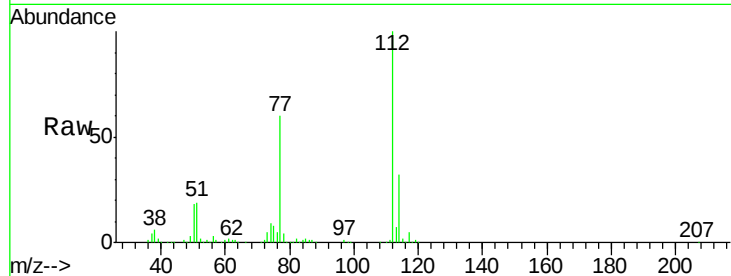
#65
Chlorobenzene
Concen: 51.086 ug/l
RT: 9.12 min Scan# 2470
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.0	37.6

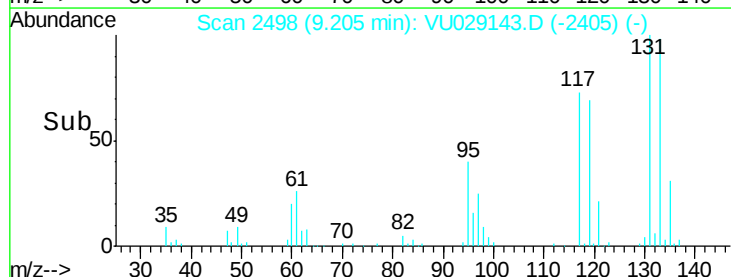
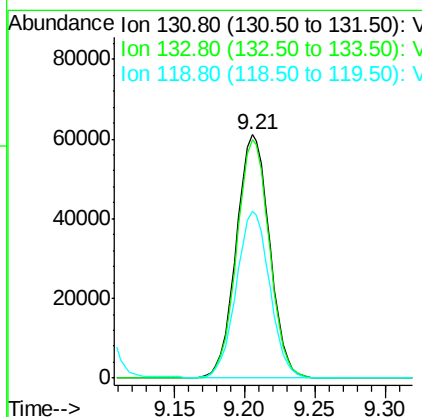
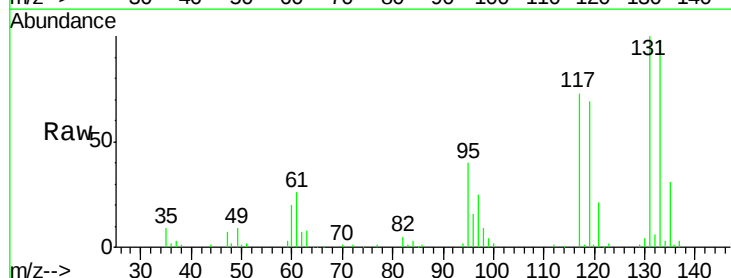
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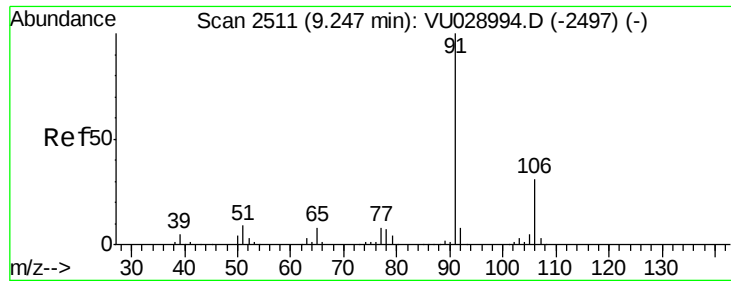
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#66
1,1,1,2-Tetrachloroethane
Concen: 54.614 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.0	48.2	144.6
119	68.9	35.4	106.3





#67

Ethyl Benzene

Concen: 53.000 ug/l

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleID :

VSTDCCC050

Tot Ion: 91 Resp: 505817

Ion Ratio Lower Upper

91 100

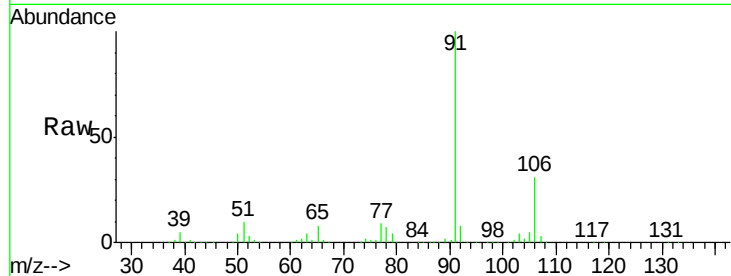
106 31.2 25.0 37.4

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Abundance Ion 91.00 (90.70 to 91.70): VU028994.D (-2497) (-)

Ion 106.00 (105.70 to 106.70): VU028994.D (-2497) (-)

500000

400000

300000

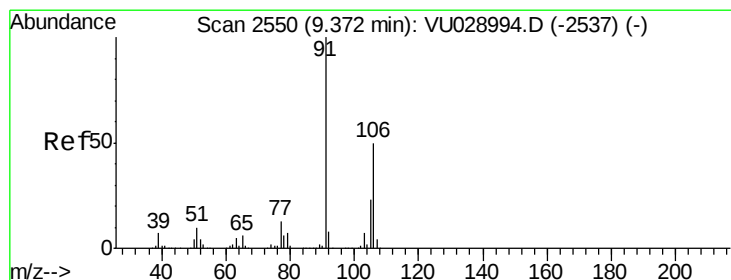
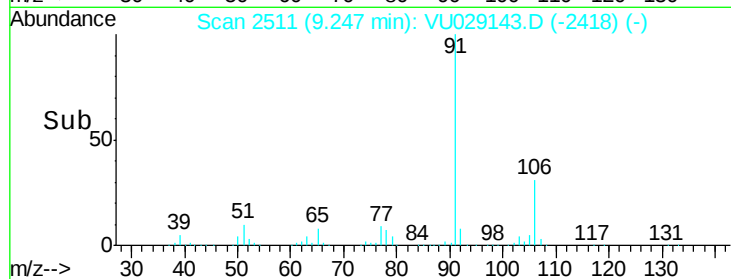
200000

100000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#68

m/p-Xylenes

Concen: 106.788 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU029143.D

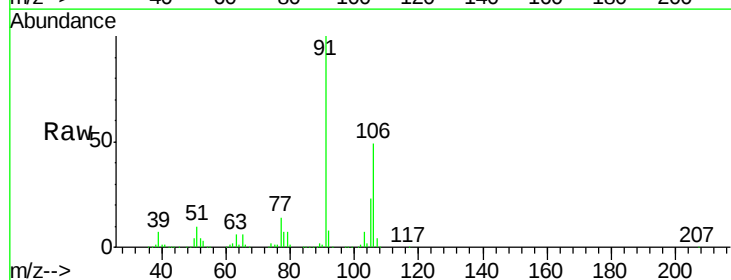
Acq: 11 Jan 2019 15:44

Tgt Ion: 106 Resp: 395989

Ion Ratio Lower Upper

106 100

91 202.5 161.7 242.5



Abundance Ion 106.00 (105.70 to 106.70): VU028994.D (-2537) (-)

Ion 91.00 (90.70 to 91.70): VU028994.D (-2537) (-)

500000

400000

300000

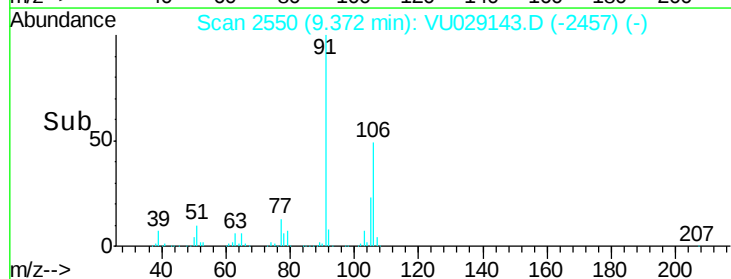
200000

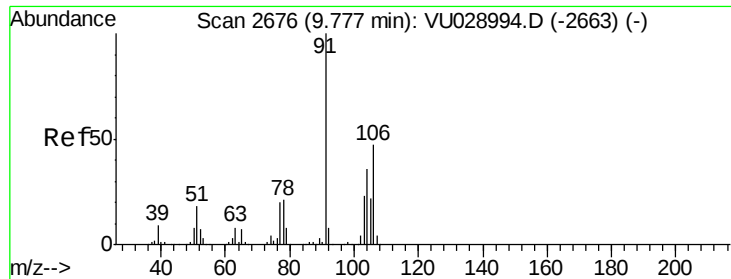
100000

0

9.30 9.35 9.40 9.45 9.50

Time-->





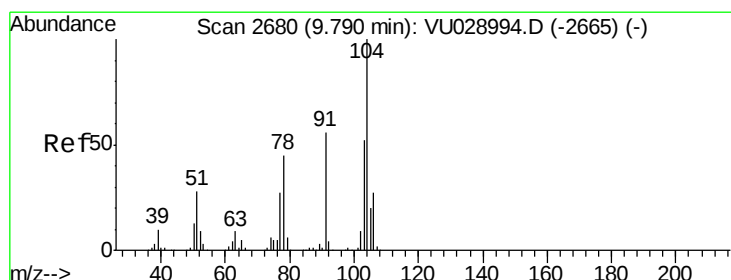
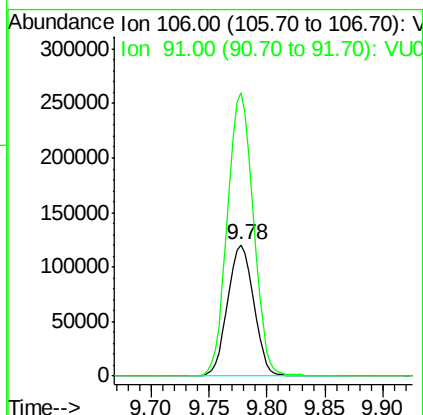
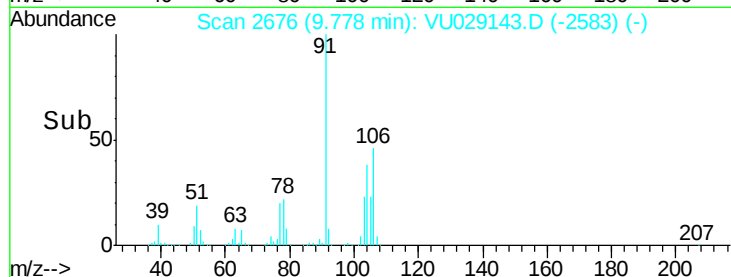
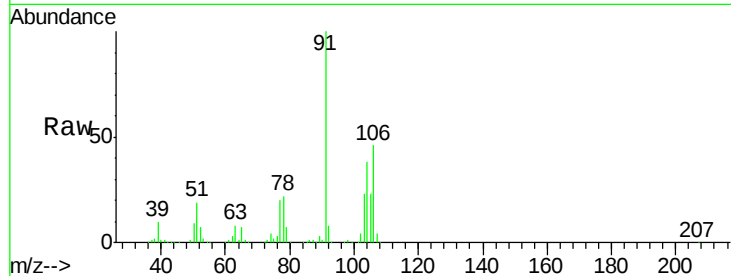
#69
o-Xylene
Concen: 52.468 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	215.3	106.1	318.3

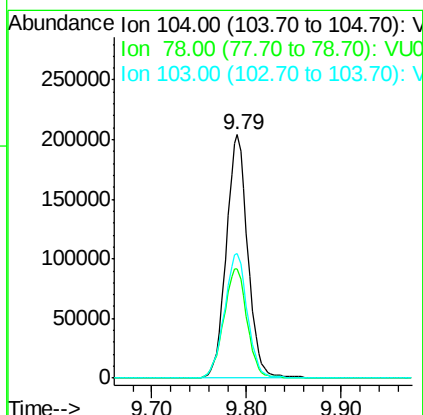
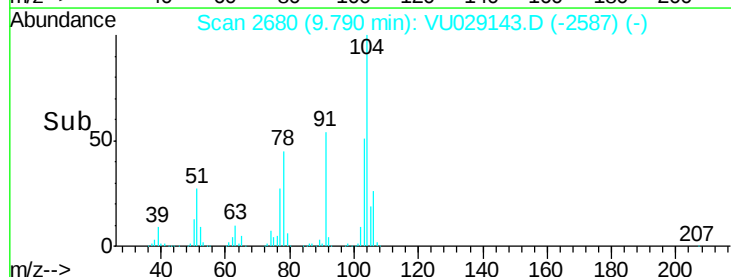
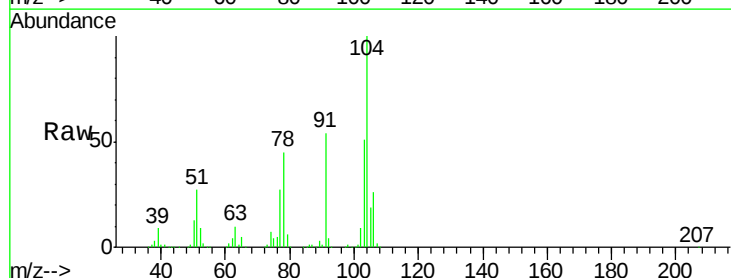
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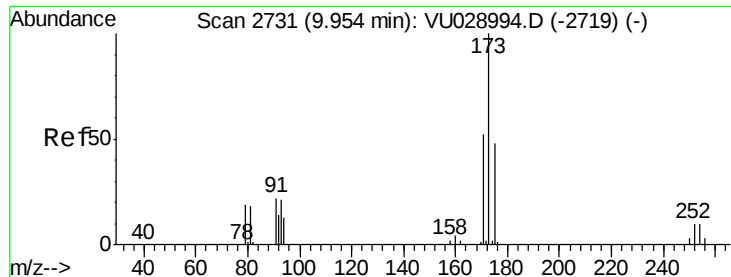
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1/14/2019 10:58:57 AM



#70
Styrene
Concen: 55.029 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.0	38.6	58.0
103	55.0	44.5	66.7





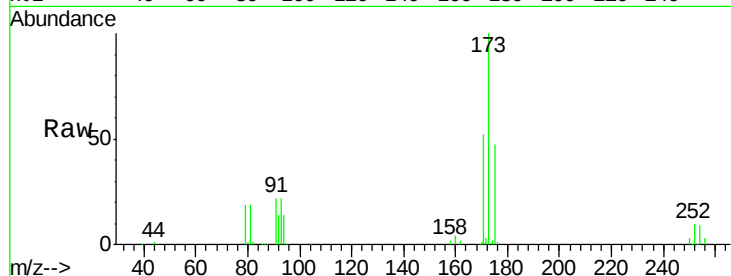
#71
Bromoform
Concen: 52.321 ug/l
RT: 9.95 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

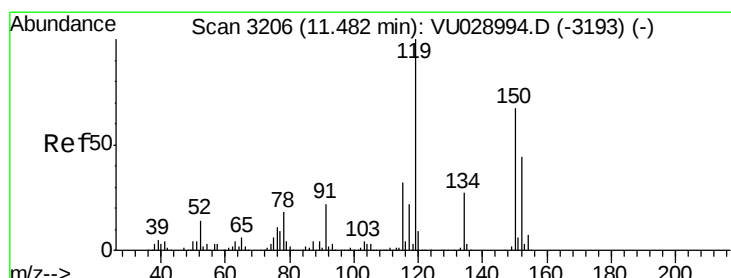
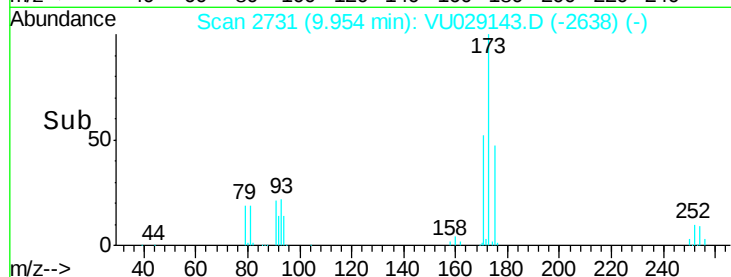
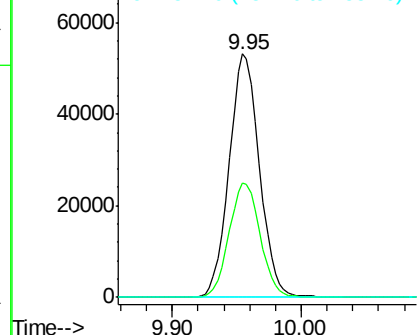
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	23.8	71.2
254	0.0	0.0	0.0

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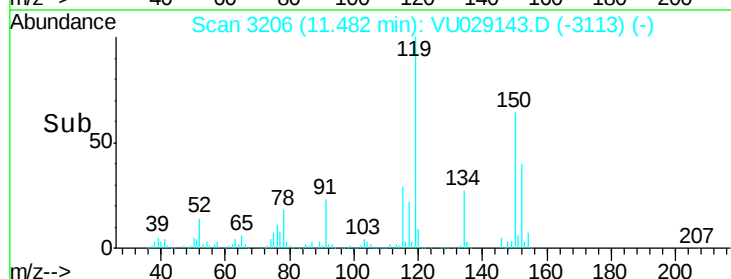
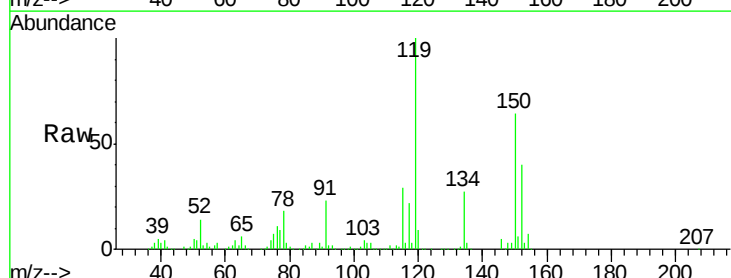
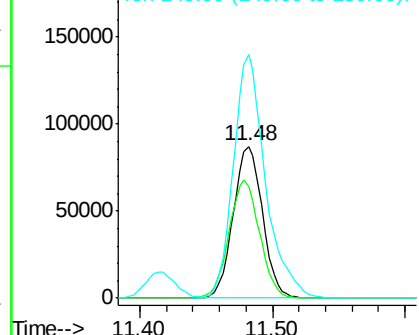
Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

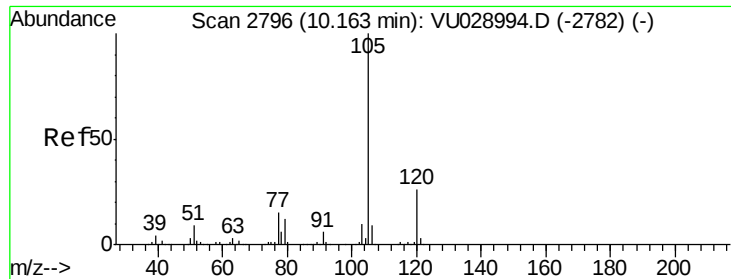


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	81.3	40.1	120.3
150	174.6	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: 50.772 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 502563

Ion Ratio Lower Upper

105 100

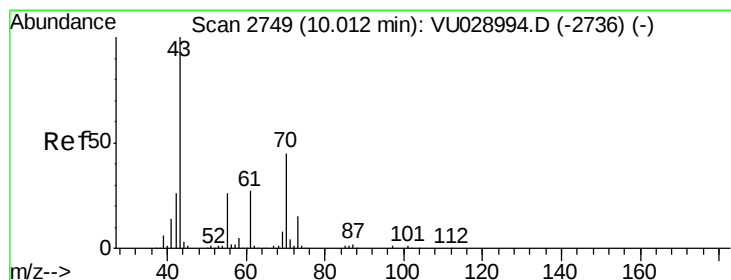
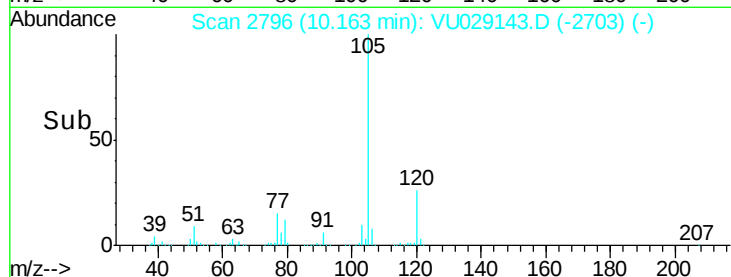
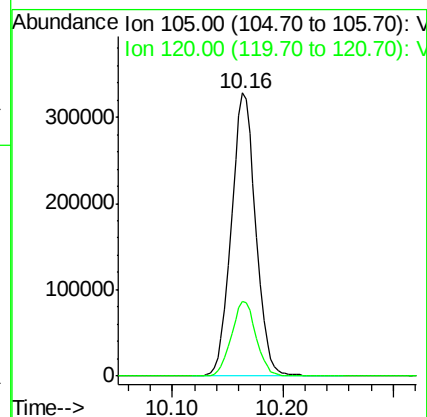
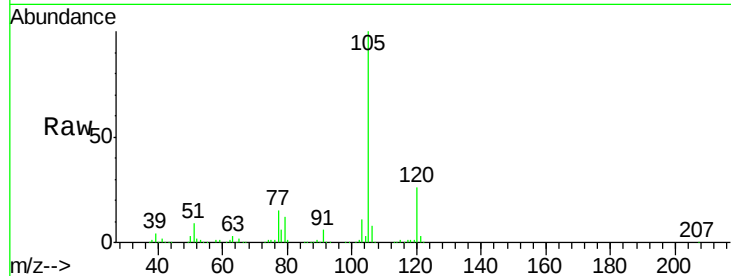
120 26.7 13.2 39.5

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#74

N-ethyl acetate

Concen: 50.472 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tgt Ion: 43 Resp: 215281

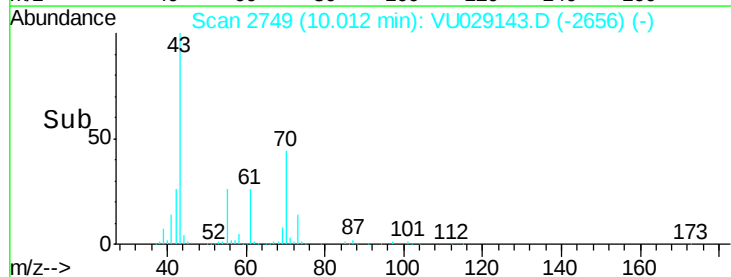
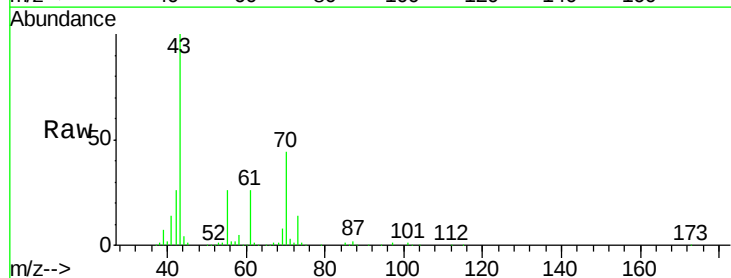
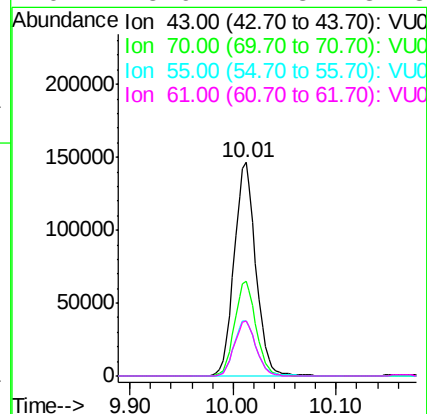
Ion Ratio Lower Upper

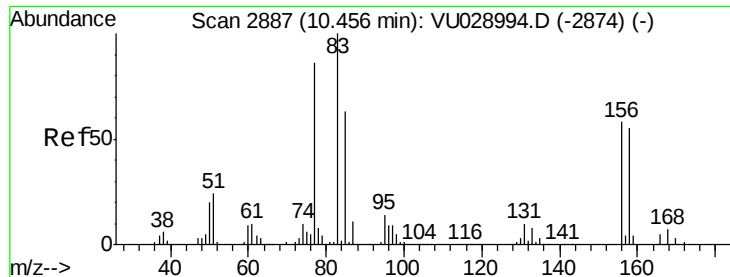
43 100

70 43.7 36.3 54.5

55 26.5 20.5 30.7

61 25.9 21.8 32.8





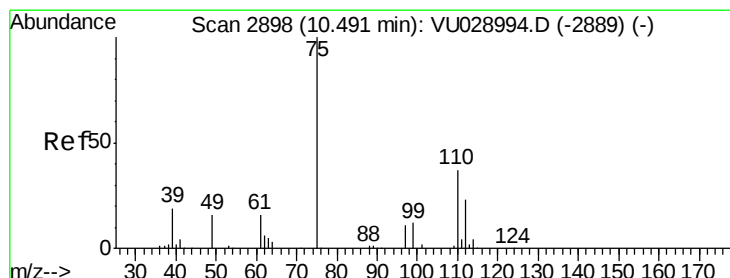
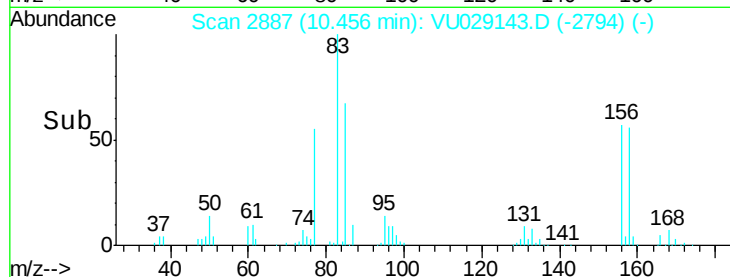
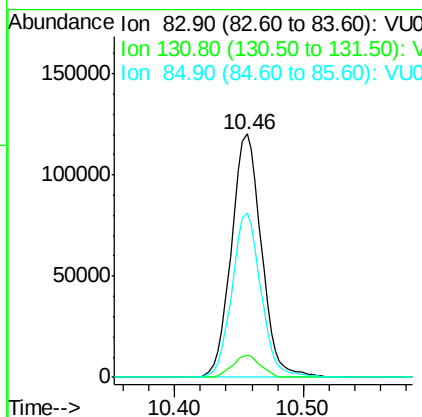
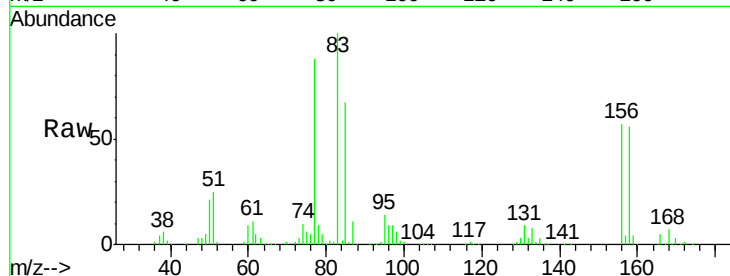
#75
 1,1,2,2-Tetrachloroethane
 Concen: 49.090 ug/l
 RT: 10.46 min Scan# 2887
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	194747		
131	8.6	4.7	14.1	
85	65.3	32.0	96.2	

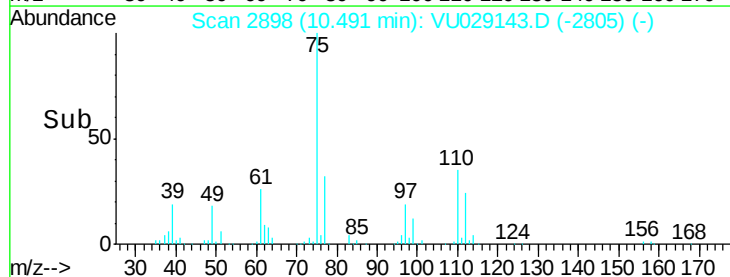
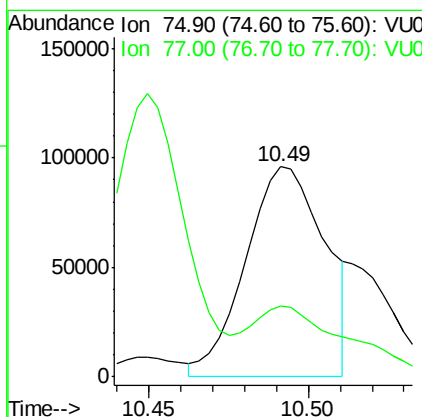
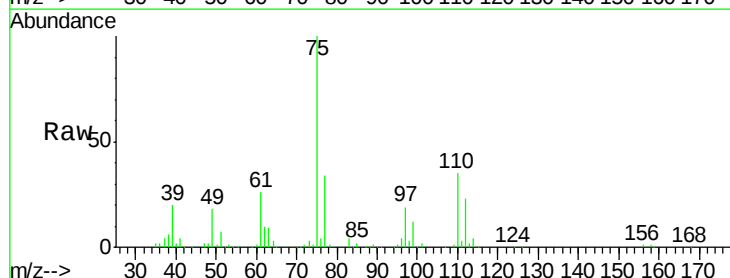
Manual Integrations
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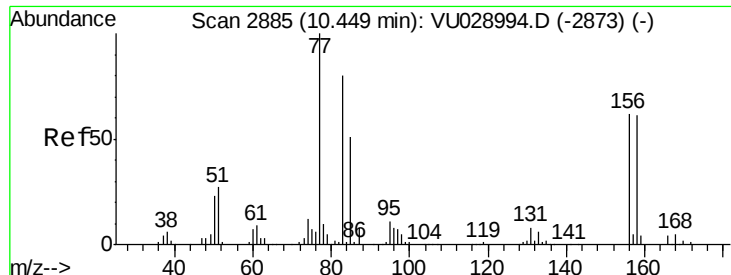
MMDadoda
 1/14/2019 10:58:57 AM



#76
 1,2,3-Trichloropropane
 Concen: 50.797 ug/l m
 RT: 10.49 min Scan# 2898
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	166440		
77	40.1	20.9	62.8	





#77

Bromobenzene

Concen: 49.591 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

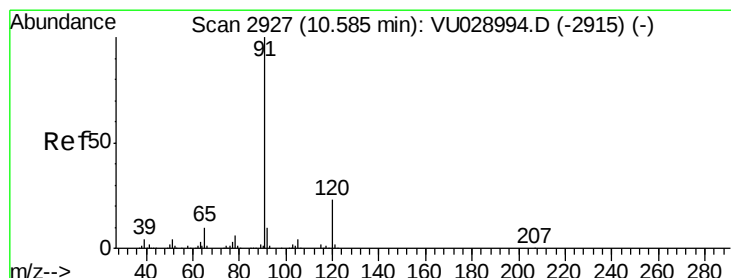
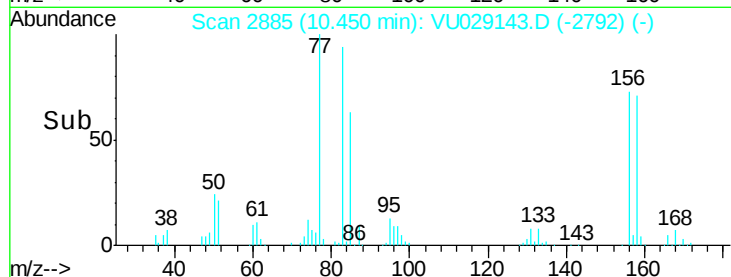
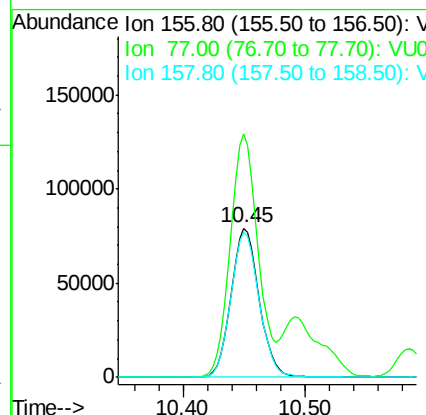
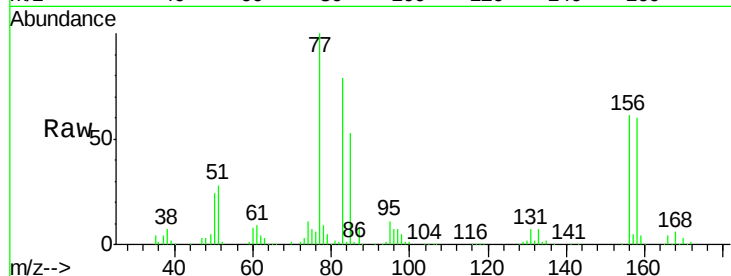
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	161.8	79.0	237.2		
158	98.0	48.9	146.6		

Manual Integrations
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MMDadoda
1/14/2019 10:58:57 AM



#78

n-propylbenzene

Concen: 53.069 ug/l

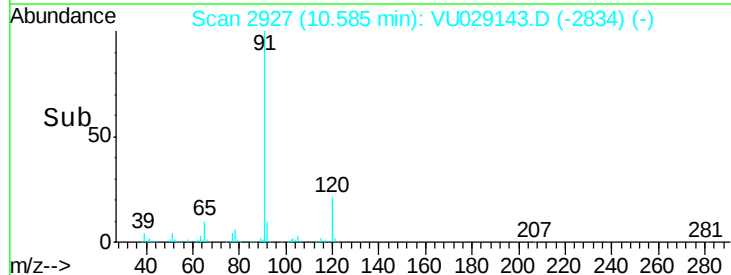
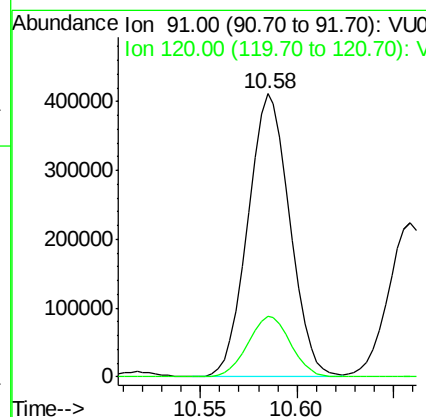
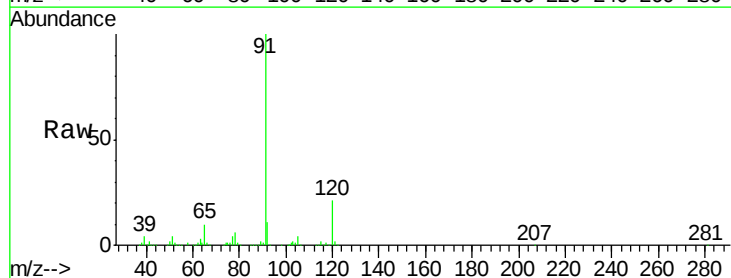
RT: 10.58 min Scan# 2927

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	21.9	11.3	33.9		





#79

2-Chlorotoluene

Concen: 50.039 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 354085

Ion Ratio Lower Upper

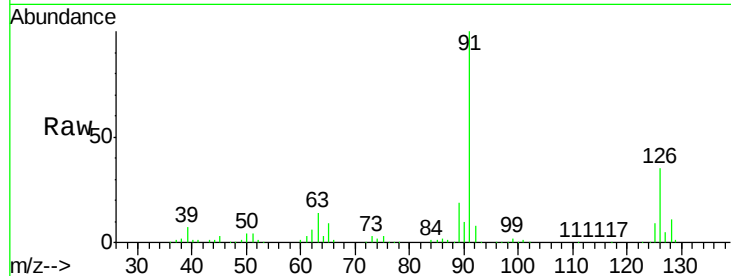
91 100

126 34.2 16.8 50.4

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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) (-)

400000

300000

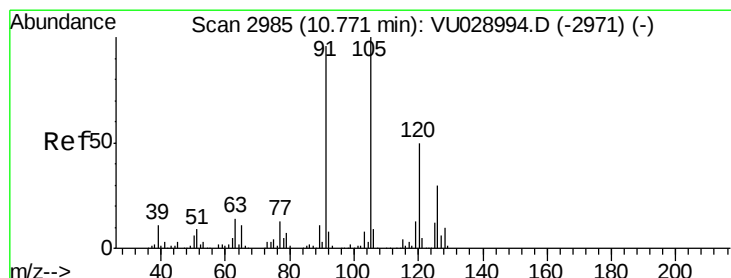
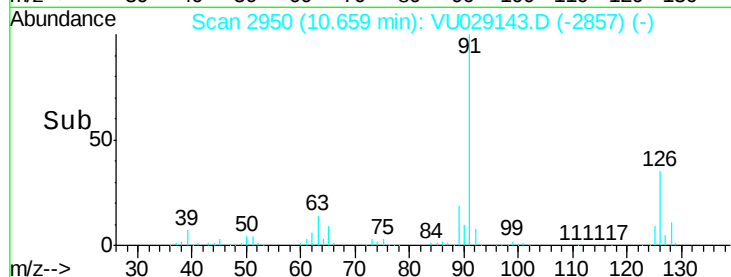
200000

100000

0

10.60 10.65 10.70 10.75

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 51.756 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029143.D

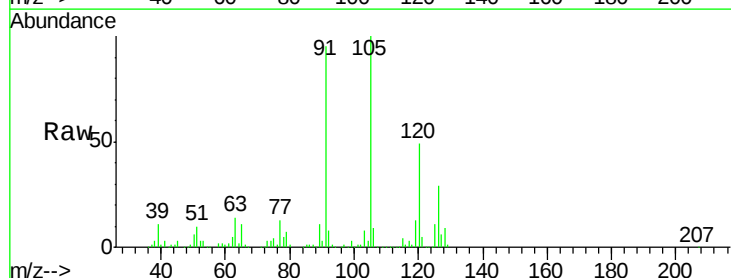
Acq: 11 Jan 2019 15:44

Tgt Ion: 105 Resp: 427811

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) (-)

300000

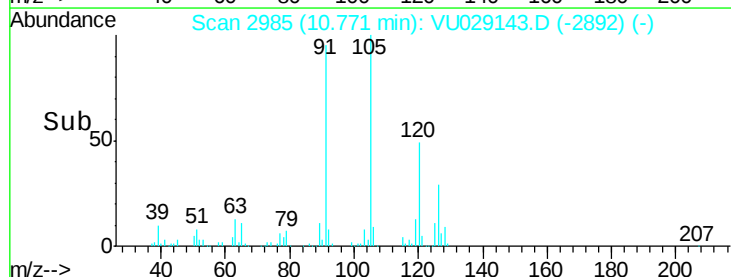
200000

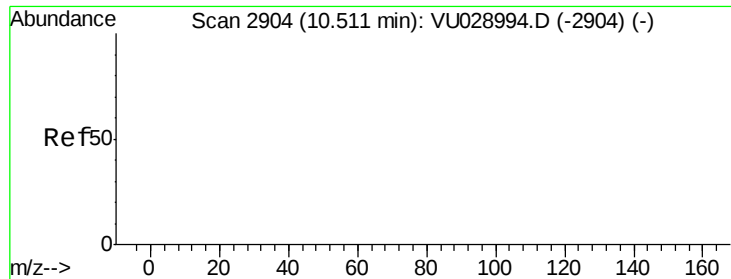
100000

0

10.70 10.75 10.80 10.85

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 40.770 ug/l m

RT: 10.51 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

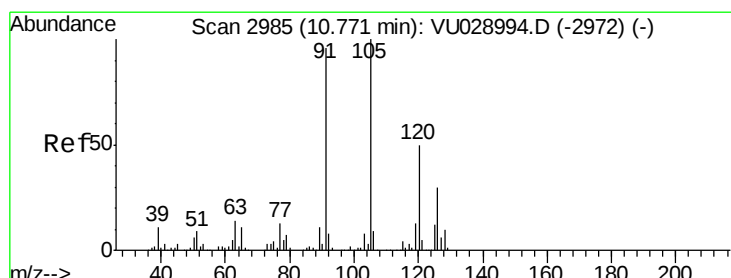
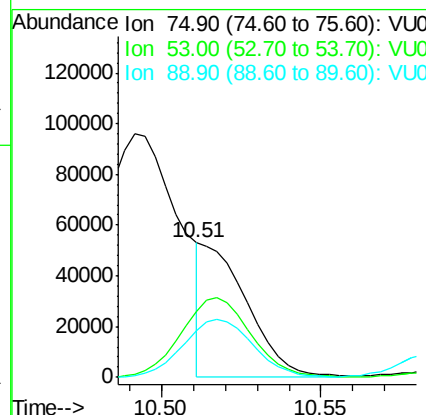
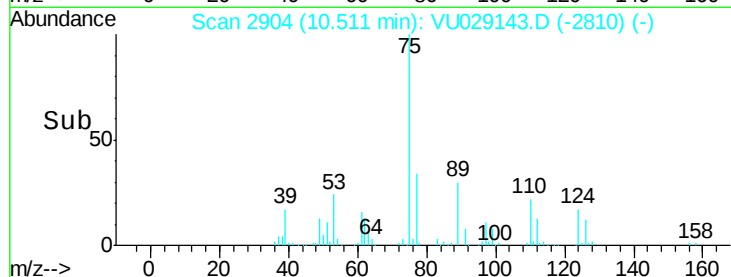
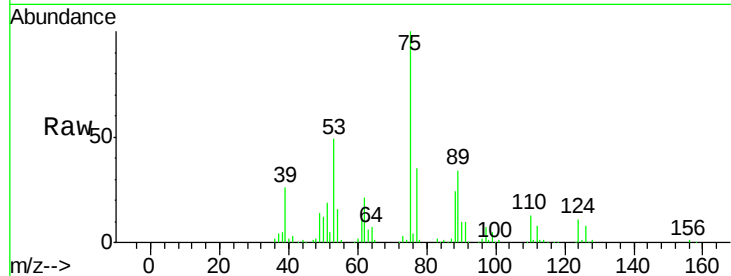
Instrument :
MSVOA_U

ClientSampleId :
VSTDCCC050

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

Manual Integrations
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1/14/2019 10:58:57 AM



#82

4-Chlorotoluene

Concen: 51.157 ug/l

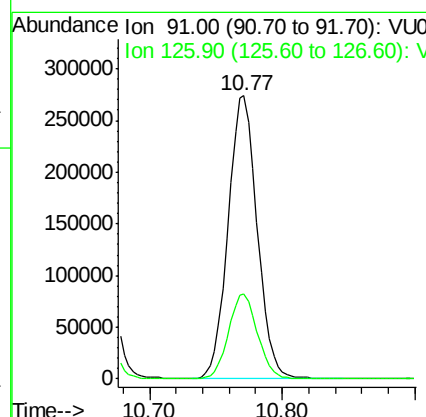
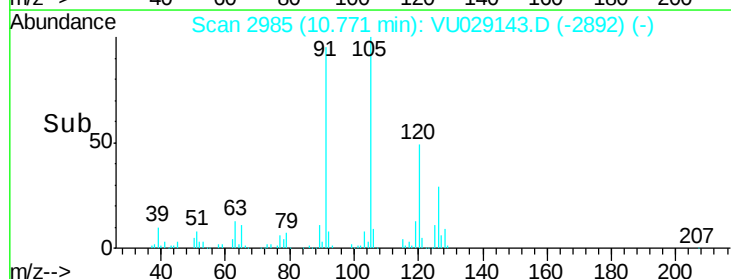
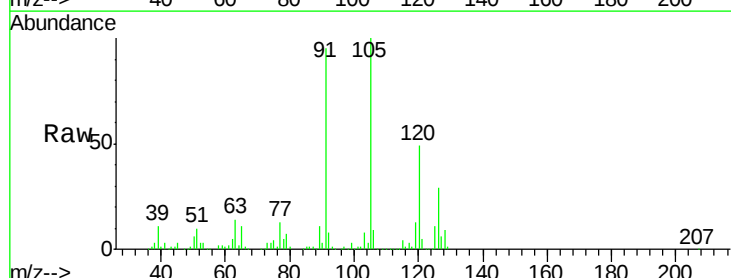
RT: 10.77 min Scan# 2985

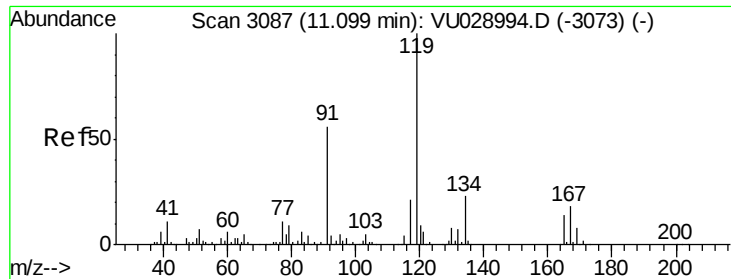
Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.8	15.5	46.5





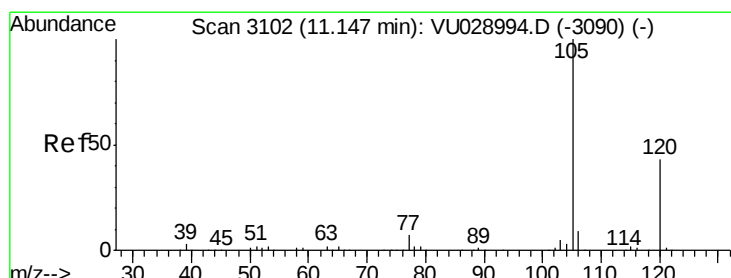
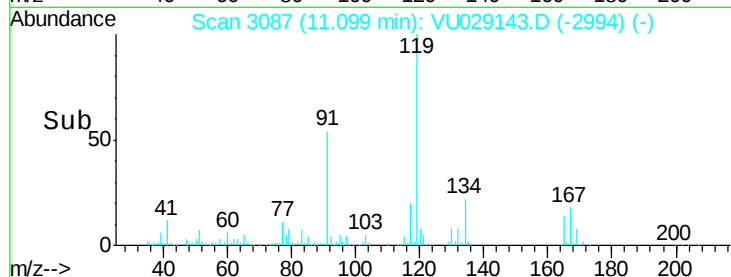
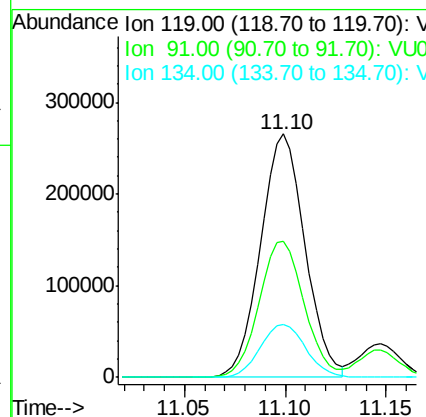
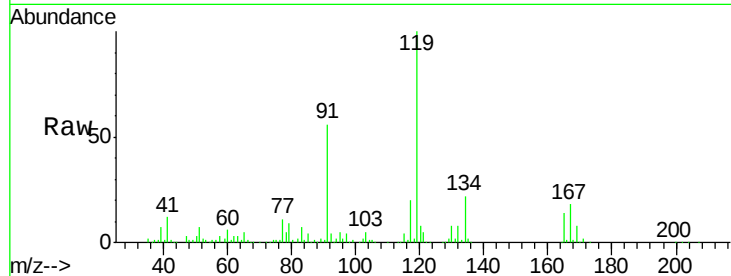
#83
tert-Butylbenzene
Concen: 50.082 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	408023		
91	57.1		28.2	84.6
134	22.3		11.3	33.8

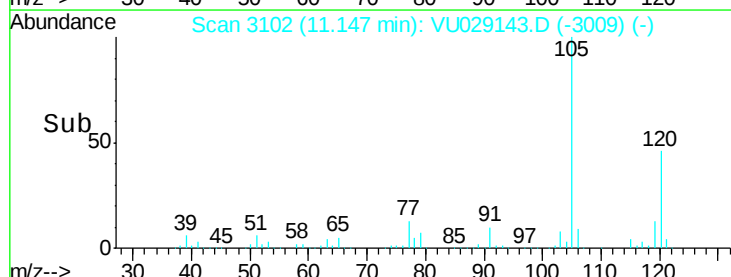
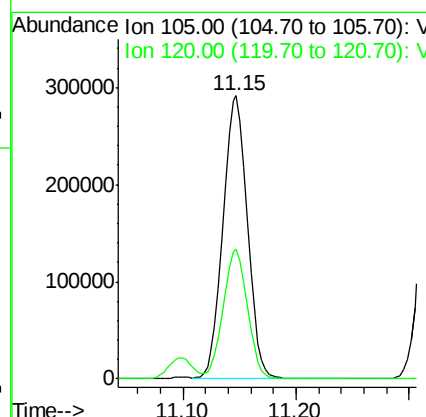
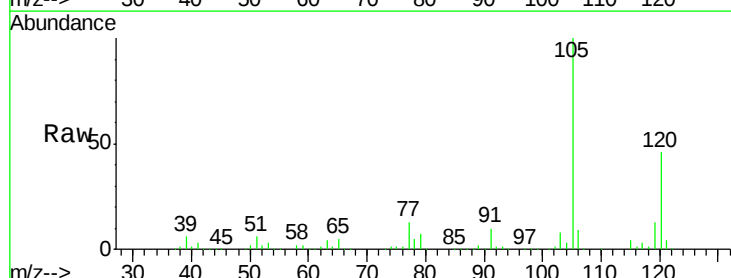
Manual Integrations
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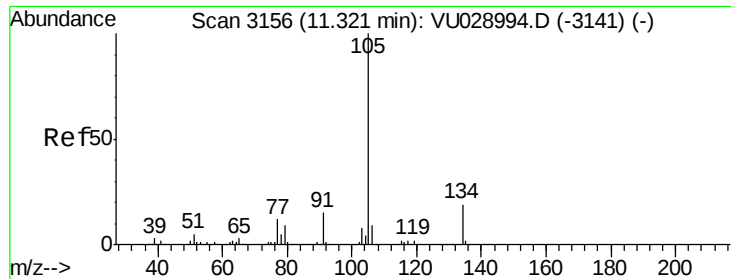
MMDadoda
1/14/2019 10:58:57 AM



#84
1,2,4-Trimethylbenzene
Concen: 53.125 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	438422		
120	45.5		23.1	69.3





#85

sec-Butylbenzene

Concen: 52.589 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 518160

Ion Ratio Lower Upper

105 100

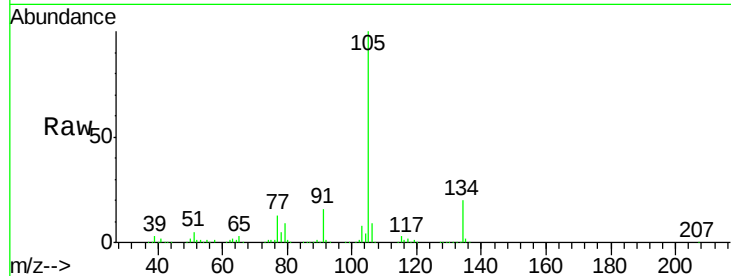
134 19.4 9.7 29.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

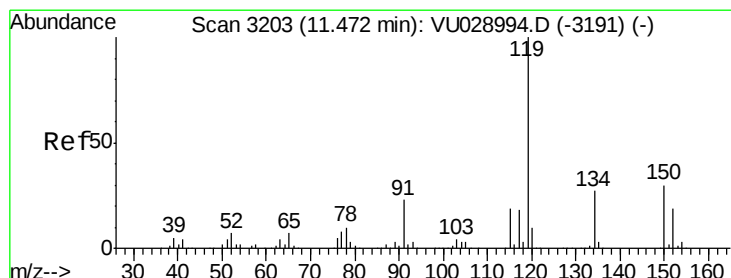
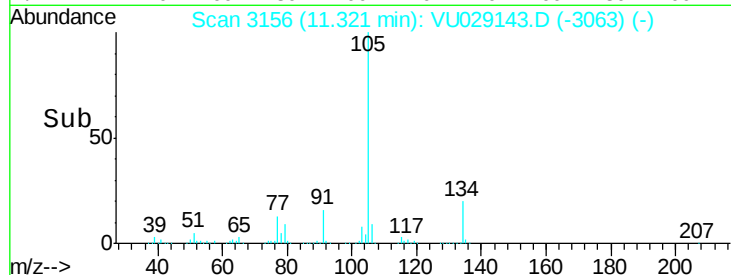
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 53.782 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU029143.D

Acq: 11 Jan 2019 15:44

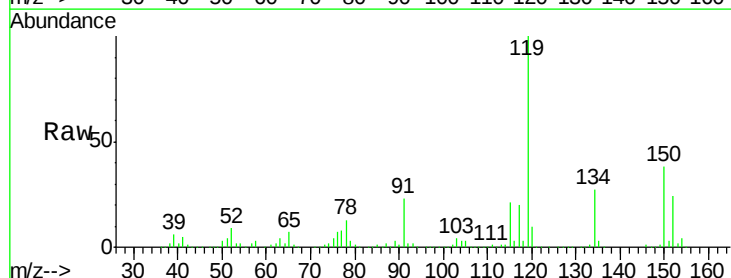
Tgt Ion:119 Resp: 451556

Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.4

91 23.3 11.3 33.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

11.48

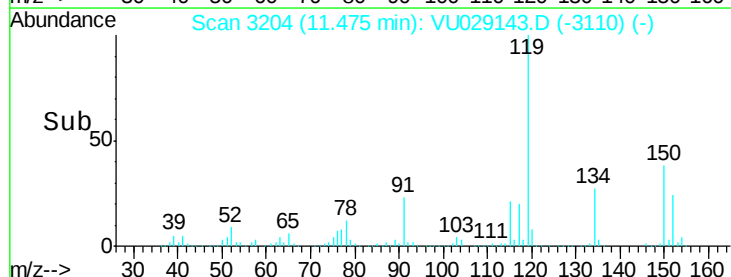
300000

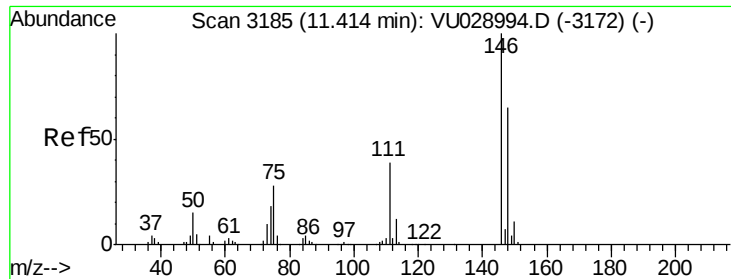
200000

100000

0

Time-->





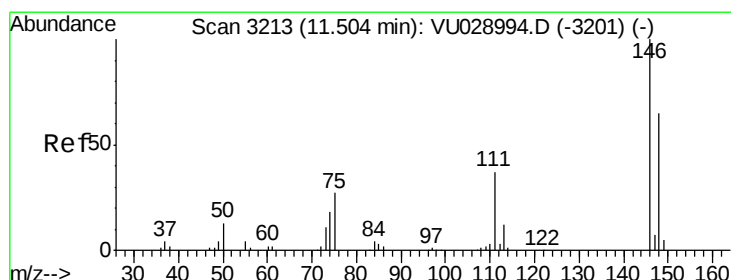
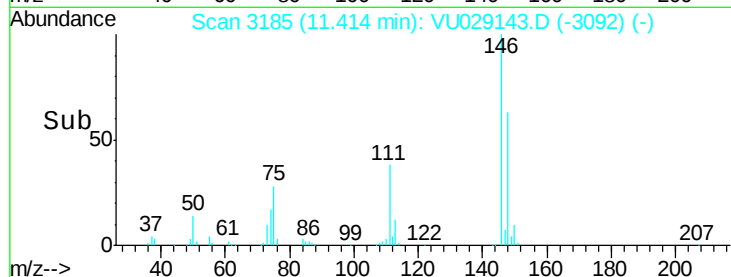
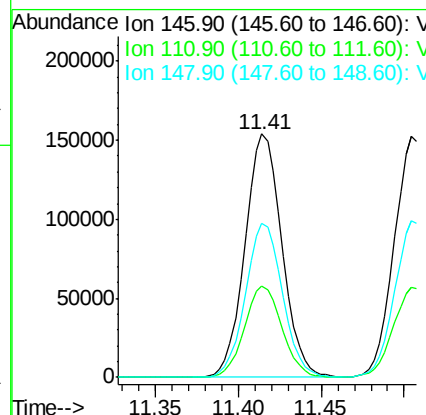
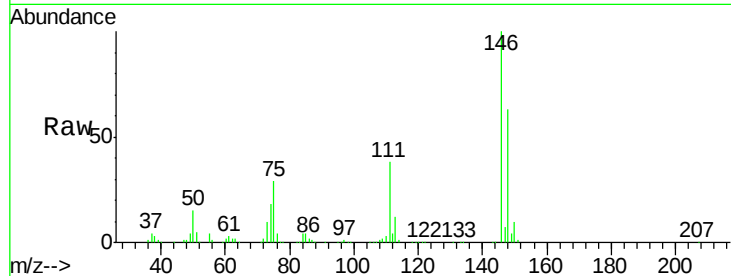
#87
 1,3-Dichlorobenzene
 Concen: 50.430 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.3	57.8
148	63.3	32.5	97.5

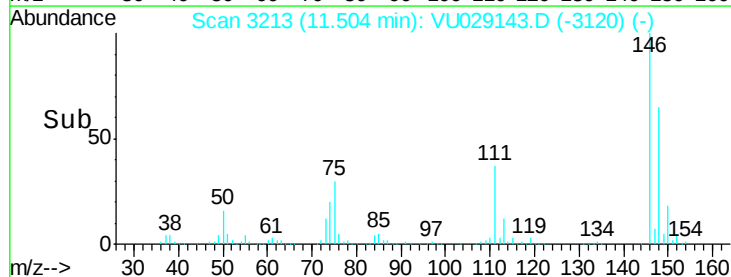
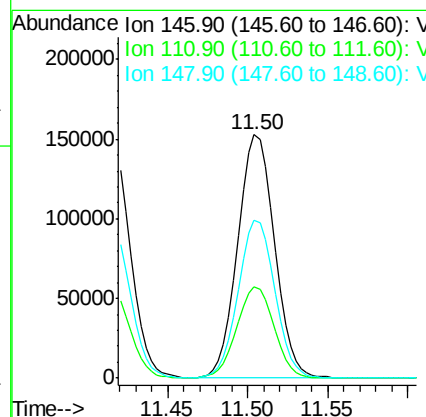
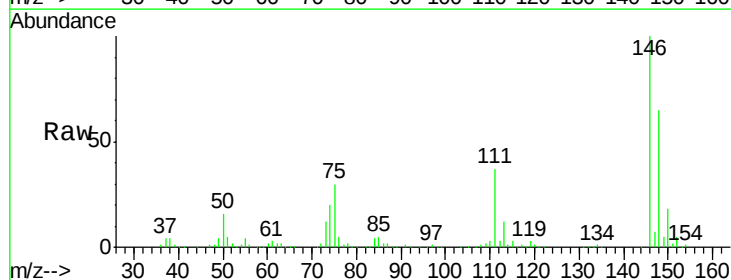
Manual Integrations
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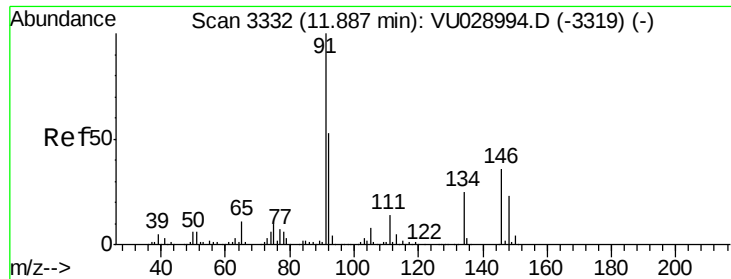
MMDadoda
 1/14/2019 10:58:57 AM



#88
 1,4-Dichlorobenzene
 Concen: 48.739 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.1	57.3
148	64.8	32.6	98.0





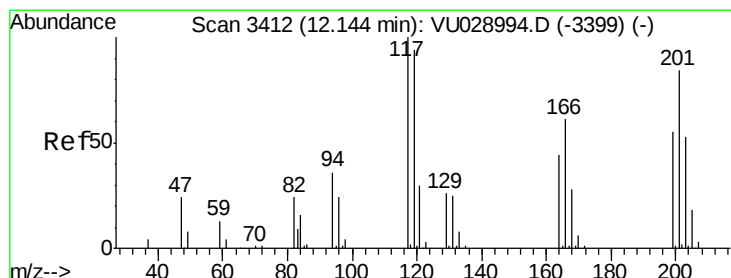
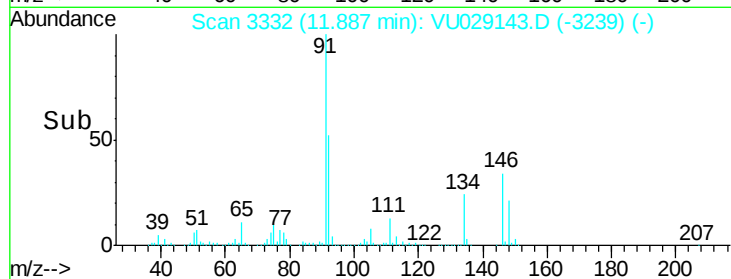
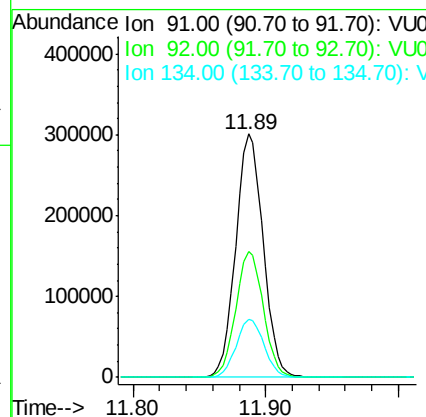
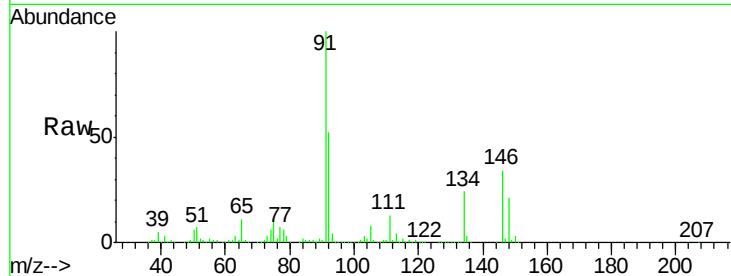
#89
n-Butylbenzene
Concen: 57.907 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.8	26.2	78.5
134	24.3	12.6	37.6

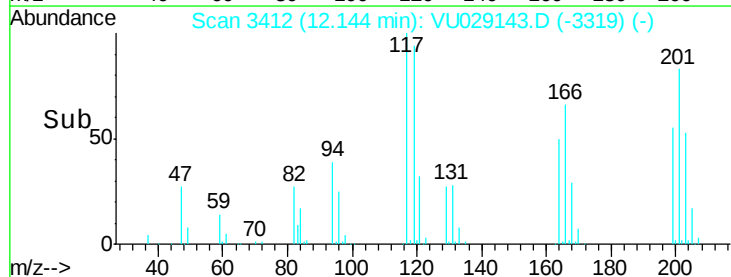
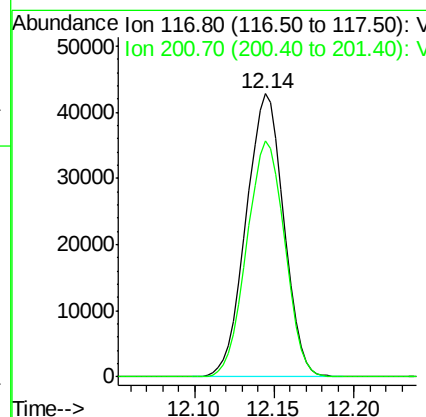
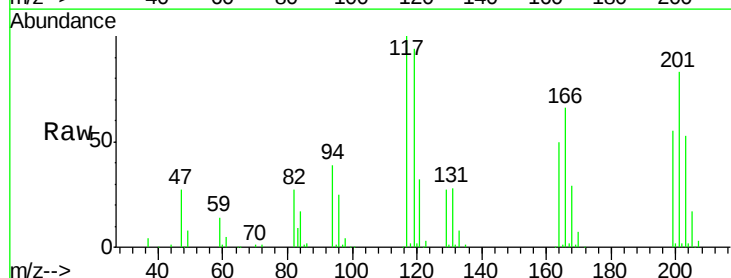
Manual Integrations
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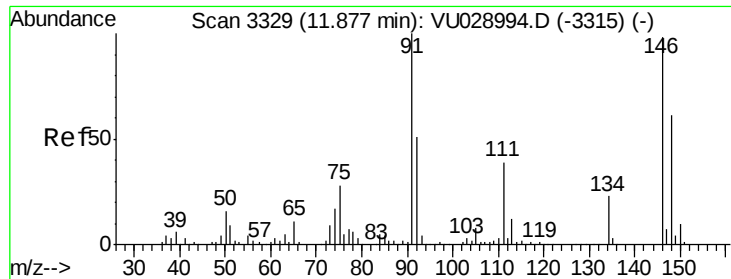
MMDadoda
1/14/2019 10:58:57 AM



#90
Hexachloroethane
Concen: 48.751 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.0	42.4	127.3





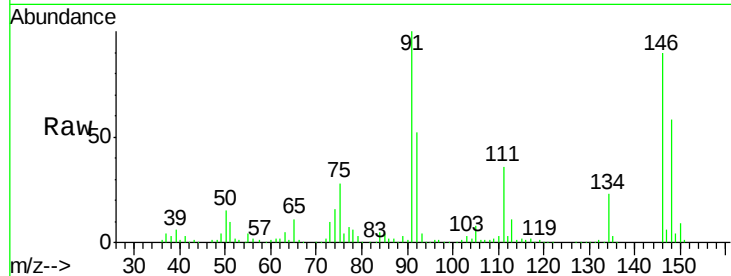
#91
 1,2-Dichlorobenzene
 Concen: 49.623 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

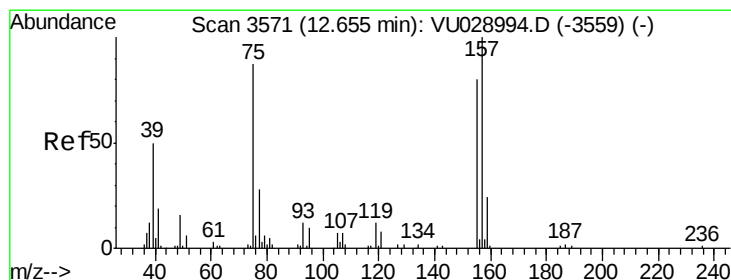
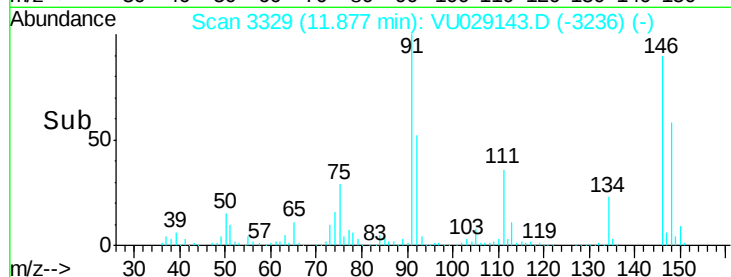
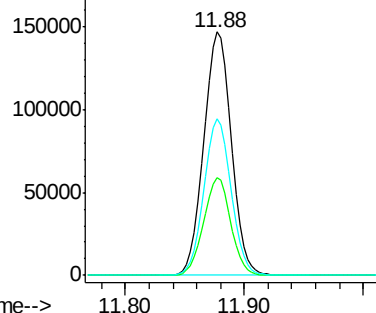
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	20.0	59.9
148	63.3	31.6	94.8

Manual Integrations
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 1/14/2019 10:58:57 AM

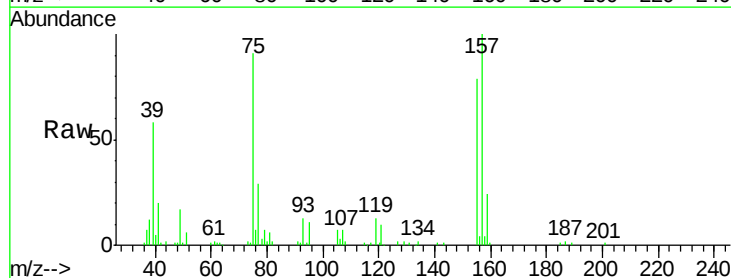


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

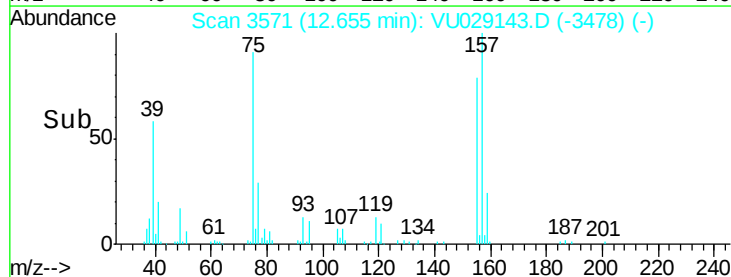
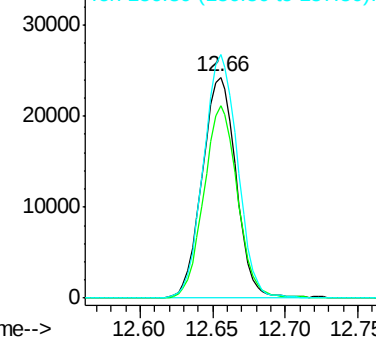


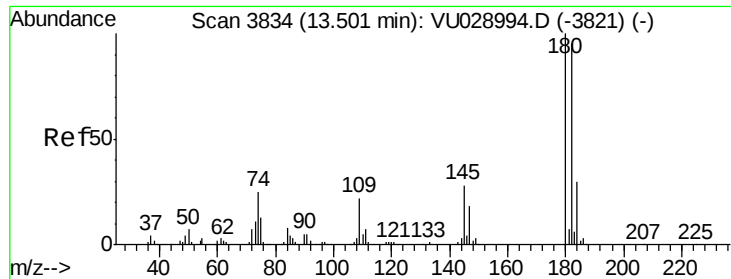
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.636 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. 0.00 min
 Lab File: VU029143.D
 Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.3	46.3	138.8
157	111.0	57.4	172.0



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





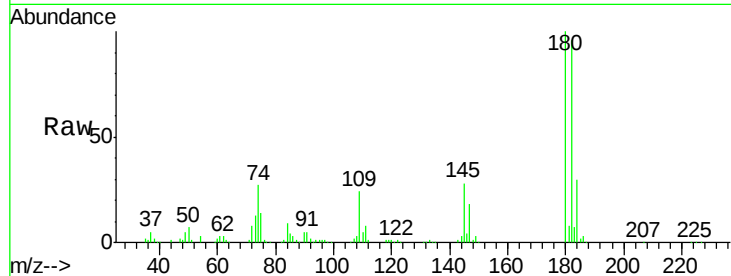
#93
1,2,4-Trichlorobenzene
Concen: 52.472 ug/l
RT: 13.50 min Scan# 3834
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampled :
VSTDCCC050

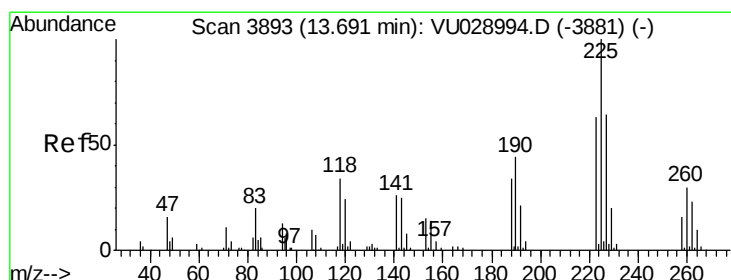
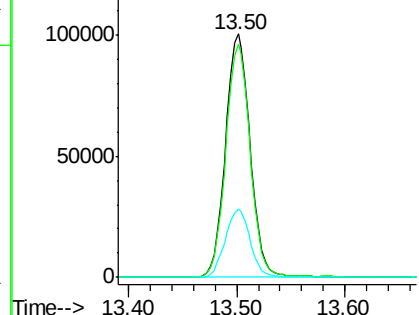
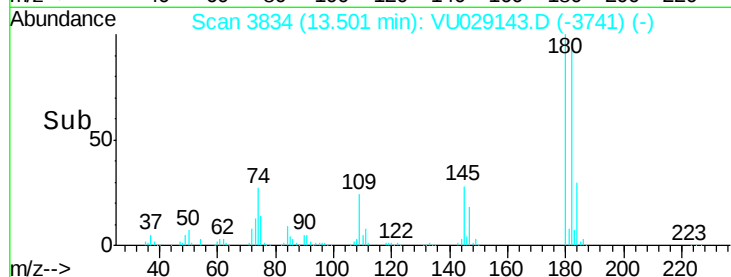
Tot Ion	Ratio	Resp	Lower	Upper
180	100	159626		
182	94.8	47.5	142.6	
145	28.0	14.0	42.0	

Manual Integrations
APPROVED

MMDadoda
1/14/2019 10:58:57 AM

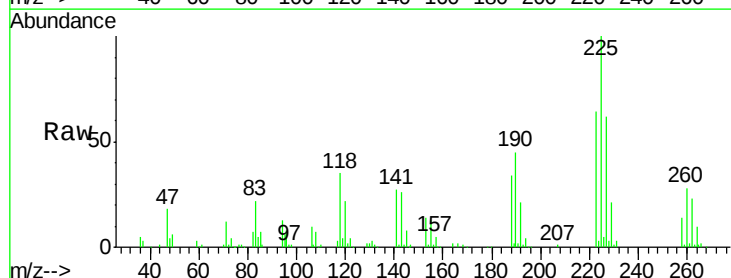


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

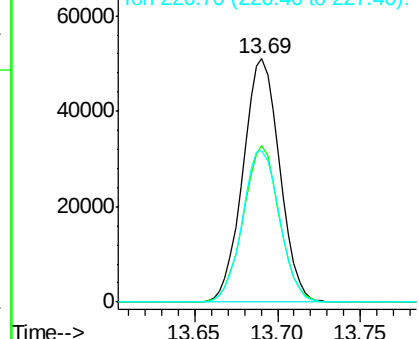
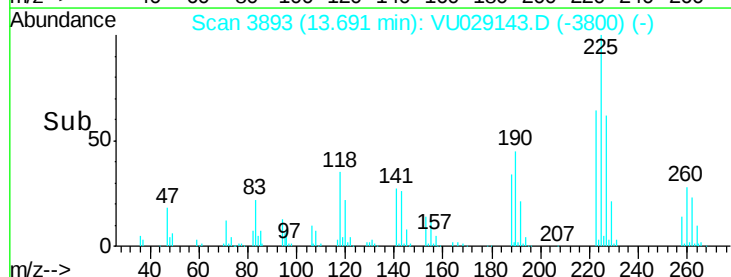


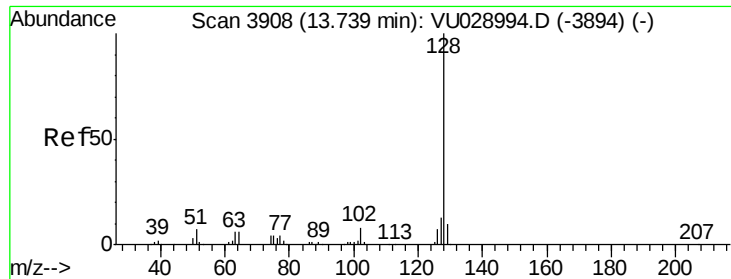
#94
Hexachlorobutadiene
Concen: 56.310 ug/l
RT: 13.69 min Scan# 3893
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	78352		
223	63.1	31.4	94.0	
227	63.2	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





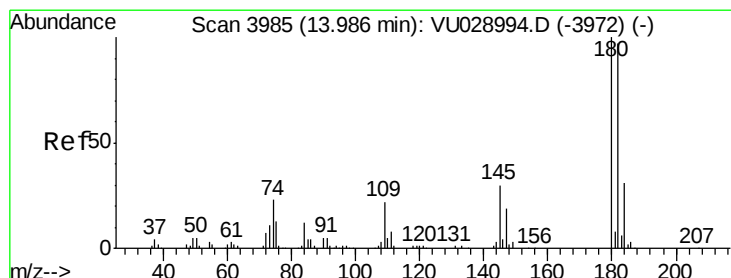
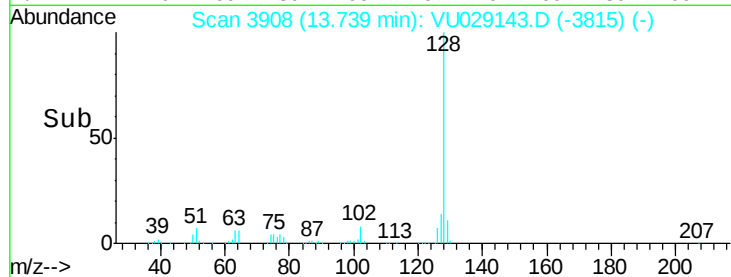
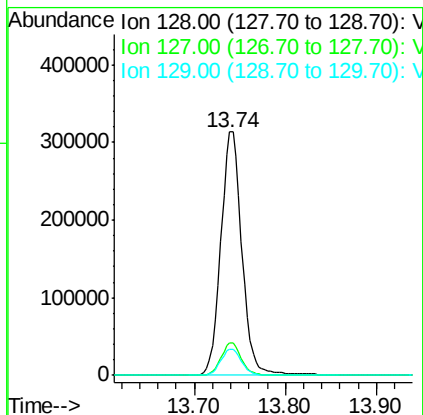
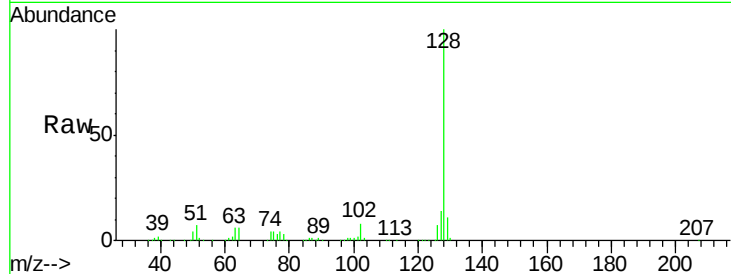
#95
Naphthalene
Concen: 48.861 ug/l
RT: 13.74 min Scan# 3908
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.8	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/14/2019 10:58:57 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.964 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU029143.D
Acq: 11 Jan 2019 15:44

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	48.1	144.3
145	30.7	14.8	44.4

