

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU083119\
 Data File : VU034090.D
 Acq On : 30 Aug 2019 12:02
 Operator : JC/SP
 Sample : VU0831WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 11:24:35 AM

Quant Time: Aug 30 15:28:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	428114	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	695833	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	666952	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	358566	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	244041	44.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.98%	
35) Dibromofluoromethane	4.86	113	208755	43.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.50%	
50) Toluene-d8	7.55	98	806368	44.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.24%	
62) 4-Bromofluorobenzene	10.29	95	300759	42.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	84370	19.595	ug/l	99
3) Chloromethane	1.32	50	103575	16.617	ug/l	99
4) Vinyl Chloride	1.40	62	108897	19.003	ug/l	100
5) Bromomethane	1.62	94	48490	13.317	ug/l	95
6) Chloroethane	1.69	64	65736	18.763	ug/l	99
7) Trichlorofluoromethane	1.88	101	129092	19.442	ug/l	98
8) Diethyl Ether	2.09	74	56264	19.808	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.28	101	81410	19.354	ug/l	98
10) Methyl Iodide	2.40	142	41156	6.897	ug/l	100
11) Tert butyl alcohol	2.81	59	108533	85.796	ug/l	100
12) 1,1-Dichloroethene	2.27	96	84709	19.765	ug/l	98
13) Acrolein	2.18	56	38375	72.112	ug/l	100
14) Allyl chloride	2.58	41	139849	17.355	ug/l	94
15) Acrylonitrile	2.92	53	282256	97.236	ug/l	100
16) Acetone	2.31	43	253616	90.610	ug/l	97
17) Carbon Disulfide	2.47	76	243977	17.986	ug/l	99
18) Methyl Acetate	2.60	43	131766	18.217	ug/l	99
19) Methyl tert-butyl Ether	2.98	73	284783	20.280	ug/l	99
20) Methylene Chloride	2.69	84	98752	18.637	ug/l	98
21) trans-1,2-Dichloroethene	2.97	96	90925	19.548	ug/l	99
22) Diisopropyl ether	3.55	45	301562	20.423	ug/l	95
23) Vinyl Acetate	3.50	43	1250664	98.599	ug/l	100
24) 1,1-Dichloroethane	3.43	63	174253	19.989	ug/l	99
25) 2-Butanone	4.24	43	378592	97.221	ug/l	100
26) 2,2-Dichloropropane	4.20	77	136699	19.271	ug/l	100
27) cis-1,2-Dichloroethene	4.20	96	102946	19.718	ug/l	98
28) Bromochloromethane	4.52	49	78671	18.317	ug/l	98
29) Tetrahydrofuran	4.61	42	243220	101.278	ug/l	98
30) Chloroform	4.65	83	168866	19.415	ug/l	99
31) Cyclohexane	4.97	56	154186	18.823	ug/l	94
32) 1,1,1-Trichloroethane	4.89	97	141795	19.905	ug/l	98
36) 1,1-Dichloropropene	5.12	75	122392	18.596	ug/l	100
37) Ethyl Acetate	4.36	43	138097	18.737	ug/l	99
38) Carbon Tetrachloride	5.11	117	119616	18.828	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	143031	18.438	ug/l	97
40) Benzene	5.37	78	379469	19.056	ug/l	99
41) Methacrylonitrile	4.52	41	73301	19.392	ug/l	100
42) 1,2-Dichloroethane	5.38	62	132182	19.223	ug/l	99
43) Isopropyl Acetate	5.53	43	212722	18.971	ug/l	100
44) Trichloroethene	6.17	130	101563	19.422	ug/l	95
45) 1,2-Dichloropropane	6.41	63	104703	19.101	ug/l	97
46) Dibromomethane	6.54	93	67447	19.098	ug/l	100
47) Bromodichloromethane	6.74	83	130806	18.931	ug/l	99
48) Methyl methacrylate	6.60	41	98833	18.266	ug/l	98
49) 1,4-Dioxane	6.59	88	45634	336.608	ug/l	98
51) 4-Methyl-2-Pentanone	7.44	43	715425	92.389	ug/l	100
52) Toluene	7.62	92	240655	19.618	ug/l	100
53) t-1,3-Dichloropropene	7.86	75	141680	18.480	ug/l	99
54) cis-1,3-Dichloropropene	7.25	75	158501	18.923	ug/l	98
55) 1,1,2-Trichloroethane	8.05	97	95869	18.476	ug/l	99
56) Ethyl methacrylate	8.00	69	141489	17.091	ug/l	99
57) 1,3-Dichloropropane	8.22	76	166833	18.936	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.11	63	264823	92.254	ug/l	100
59) 2-Hexanone	8.34	43	534281	91.396	ug/l	100
60) Dibromochloromethane	8.46	129	102421	18.389	ug/l	98
61) 1,2-Dibromoethane	8.57	107	101713	18.609	ug/l	99
64) Tetrachloroethene	8.21	164	90200	20.138	ug/l	99
65) Chlorobenzene	9.10	112	263363	19.188	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	92336	18.553	ug/l	98
67) Ethyl Benzene	9.23	91	450026	19.343	ug/l	99
68) m/p-Xylenes	9.36	106	351747	39.760	ug/l	98
69) o-Xylene	9.76	106	163146	19.222	ug/l	98
70) Styrene	9.77	104	289995	19.927	ug/l	98
71) Bromoform	9.94	173	77171	17.847	ug/l #	98
73) Isopropylbenzene	10.15	105	445145	18.482	ug/l	100
74) N-amyl acetate	10.00	43	181039	17.872	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	162530	17.631	ug/l	100
76) 1,2,3-Trichloropropane	10.48	75	139105m	17.213	ug/l	
77) Bromobenzene	10.43	156	118580	18.303	ug/l	99
78) n-propylbenzene	10.57	91	529002	18.860	ug/l	100
79) 2-Chlorotoluene	10.64	91	315596	18.759	ug/l	99
80) 1,3,5-Trimethylbenzene	10.76	105	389153	19.064	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.49	75	47264m	19.693	ug/l	
82) 4-Chlorotoluene	10.76	91	365402	18.885	ug/l	100
83) tert-Butylbenzene	11.08	119	361976	18.013	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	393137	19.395	ug/l	99
85) sec-Butylbenzene	11.31	105	445714	18.506	ug/l	100
86) p-Isopropyltoluene	11.46	119	408940	18.773	ug/l	99
87) 1,3-Dichlorobenzene	11.40	146	214361	18.689	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	218788	18.861	ug/l	99
89) n-Butylbenzene	11.87	91	365877	19.051	ug/l	99
90) Hexachloroethane	12.12	117	58305	15.481	ug/l	97
91) 1,2-Dichlorobenzene	11.86	146	209302	19.049	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	33243	18.101	ug/l	98

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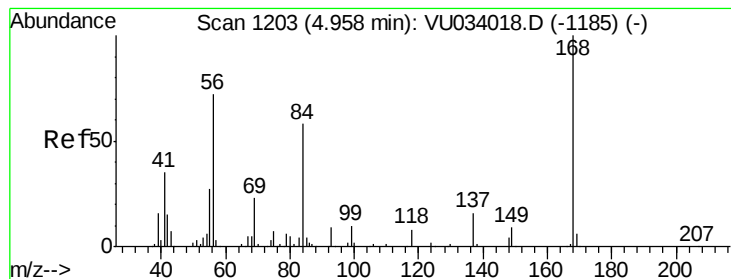
Manual Integrations
APPROVED

MMDadoda
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	145252	19.286	ug/l	99
94) Hexachlorobutadiene	13.67	225	71021	16.524	ug/l	98
95) Naphthalene	13.73	128	455693	21.422	ug/l	100
96) 1,2,3-Trichlorobenzene	13.97	180	146393	20.799	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion:168 Resp: 428114

Ion Ratio Lower Upper

168 100

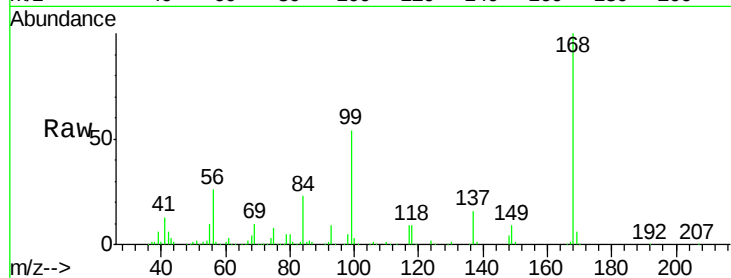
99 53.3 42.3 63.5

Manual Integrations

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8/31/2019 11:24:35 AM



Abundance Ion 167.90 (167.60 to 168.60): VU034090.D (-1110) (-)

Ion 98.90 (98.60 to 99.60): VU034090.D (-1110) (-)

4.96

200000

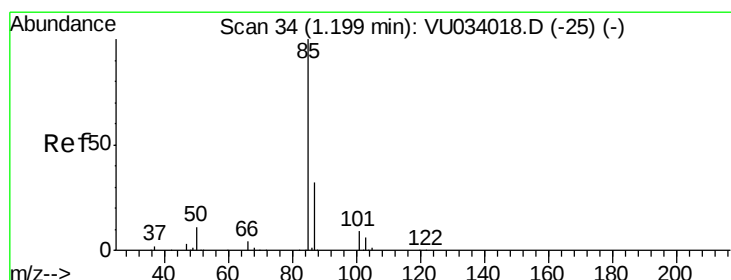
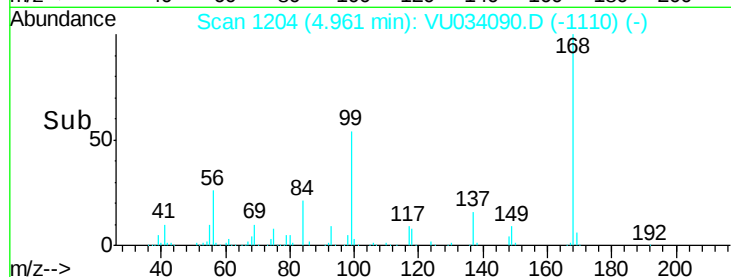
150000

100000

50000

0

Time--> 4.85 4.90 4.95 5.00 5.05



#2

Dichlorodifluoromethane

Concen: 19.595 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034090.D

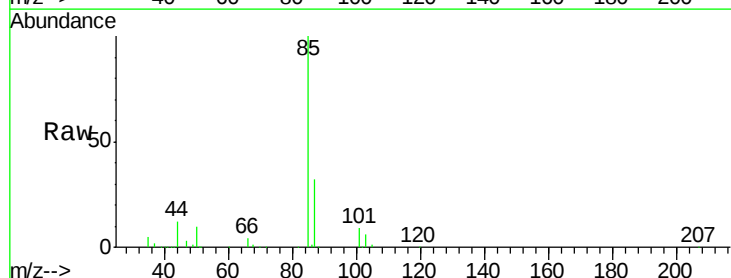
Acq: 30 Aug 2019 12:02

Tgt Ion: 85 Resp: 84370

Ion Ratio Lower Upper

85 100

87 31.6 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VU034090.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VU034090.D (-1) (-)

1.20

100000

80000

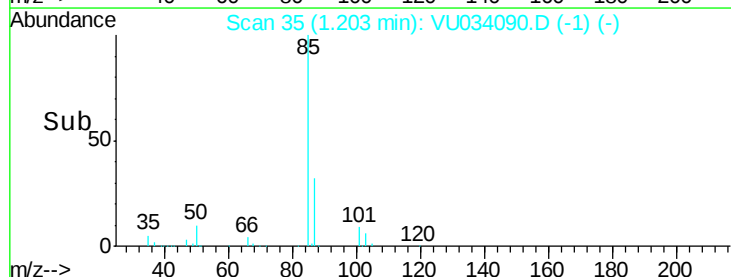
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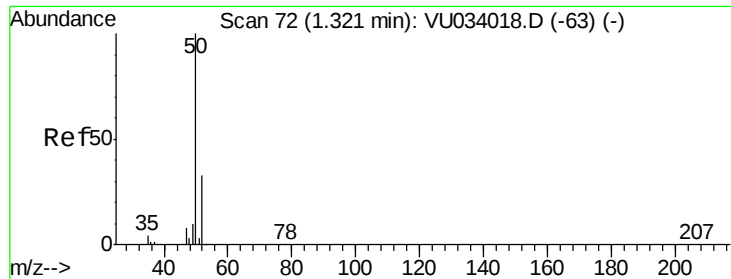
40000

20000

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 16.617 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 50 Resp: 103575

Ion Ratio Lower Upper

50 100

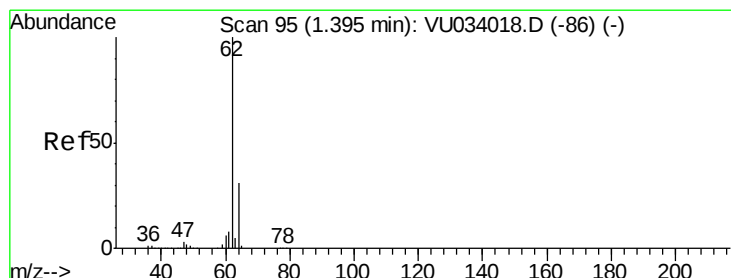
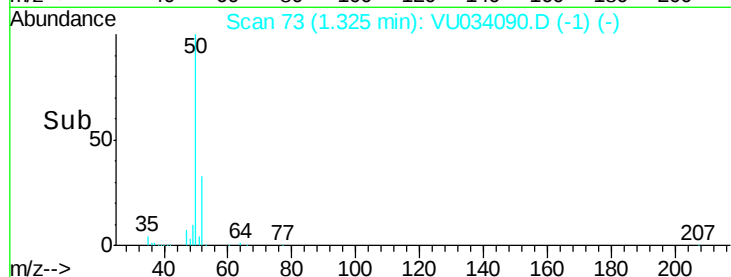
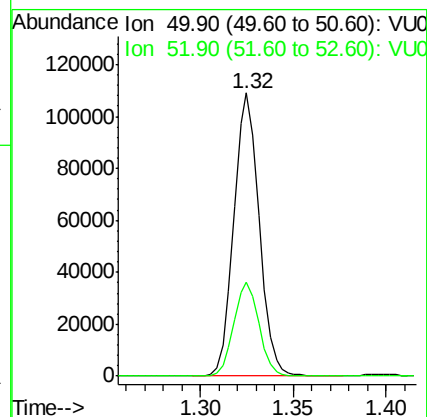
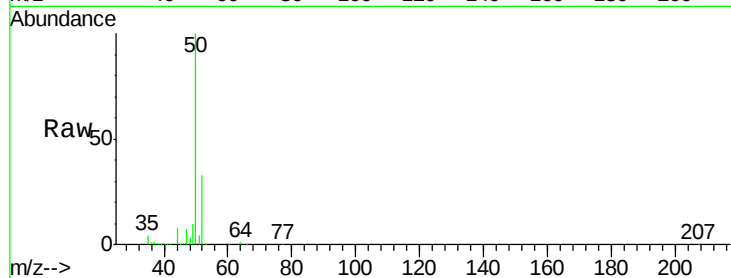
52 33.1 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.003 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034090.D

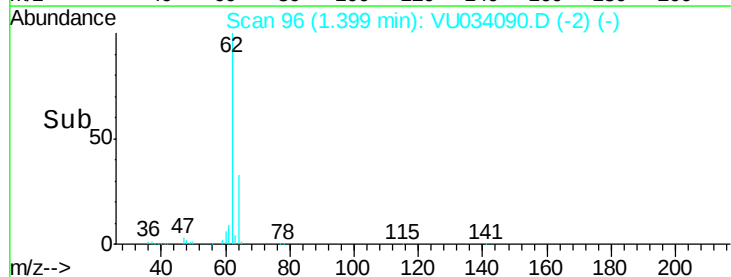
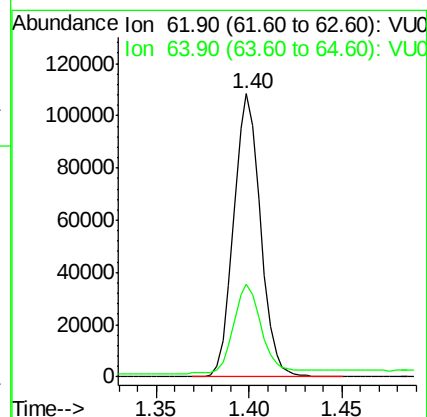
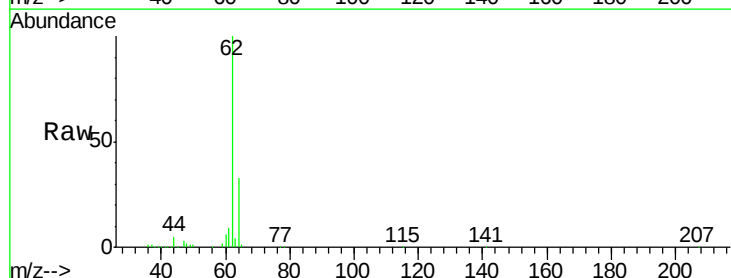
Acq: 30 Aug 2019 12:02

Tgt Ion: 62 Resp: 108897

Ion Ratio Lower Upper

62 100

64 31.5 25.0 37.6





#5

Bromomethane

Concen: 13.317 ug/l

RT: 1.62 min Scan# 164

Delta R.T. 0.02 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 94 Resp: 48490

Ion Ratio Lower Upper

94 100

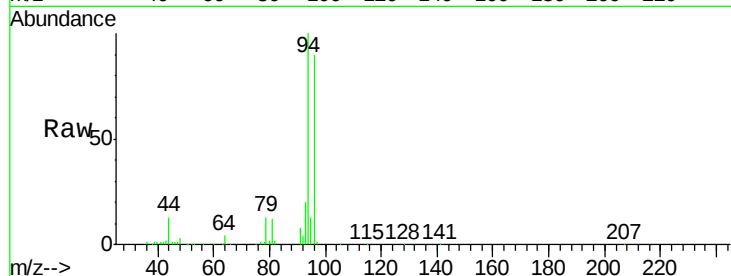
96 90.1 76.3 114.5

Manual Integrations

APPROVED

MMDadoda

8/31/2019 11:24:35 AM



Abundance Ion 93.90 (93.60 to 94.60): VU034090.D (-65) (-)

Ion 95.90 (95.60 to 96.60): VU034090.D (-65) (-)

1.62

40000

30000

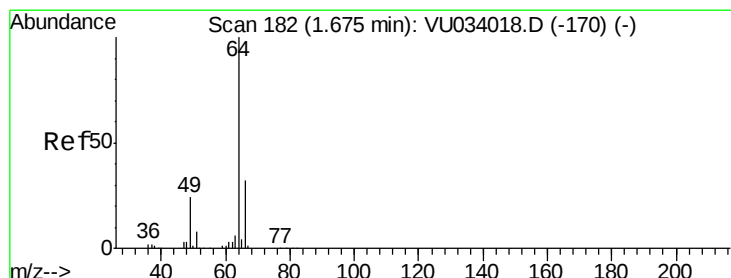
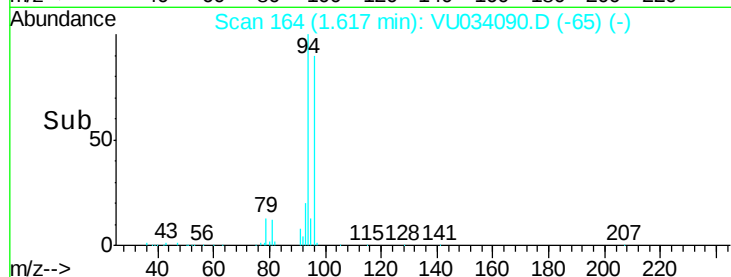
20000

10000

0

Time-->

1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 18.763 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.02 min

Lab File: VU034090.D

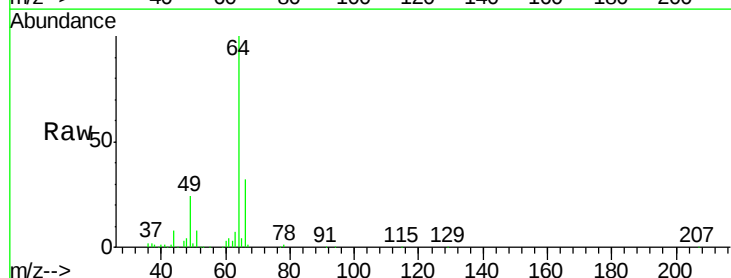
Acq: 30 Aug 2019 12:02

Tgt Ion: 64 Resp: 65736

Ion Ratio Lower Upper

64 100

66 32.4 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VU034090.D (-89) (-)

Ion 65.90 (65.60 to 66.60): VU034090.D (-89) (-)

1.69

60000

50000

40000

30000

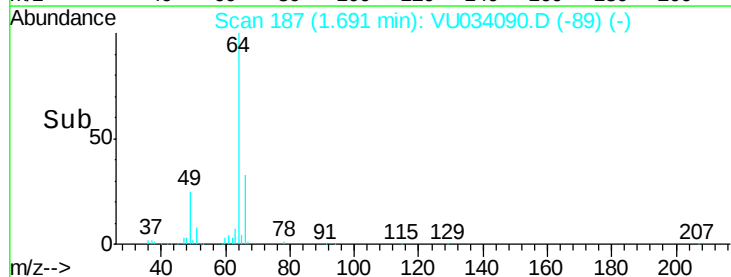
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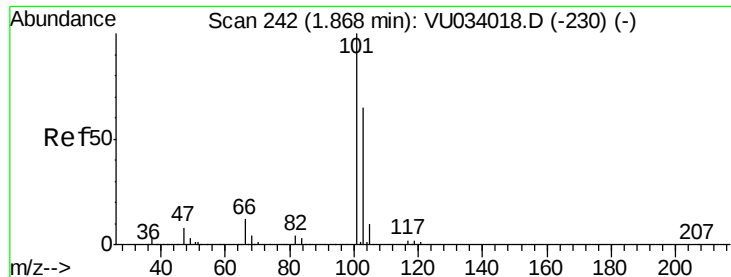
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Time-->

1.65 1.70 1.75





#7

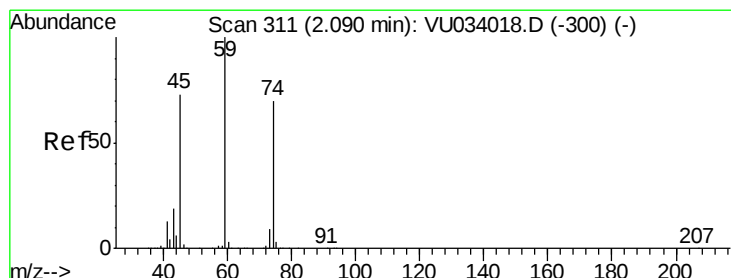
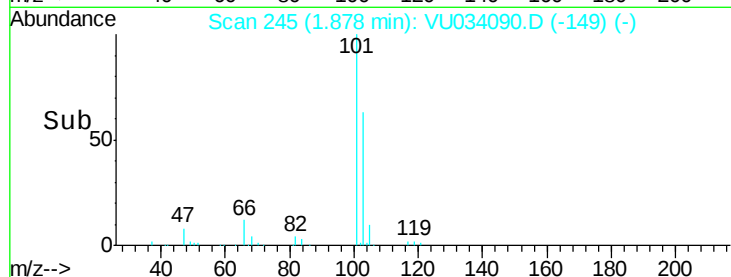
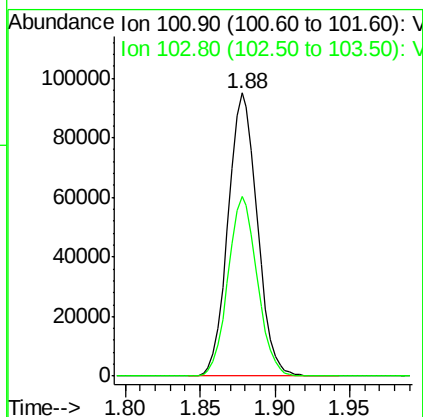
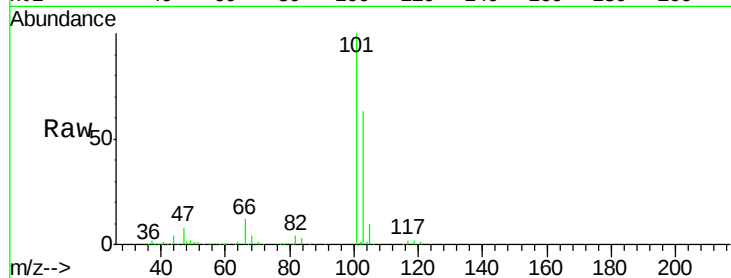
Trichlorofluoromethane
 Concen: 19.442 ug/l
 RT: 1.88 min Scan# 245
 Delta R.T. 0.01 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
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 ClientSampleId :
 VU0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	129092		
103	63.3	52.1	78.1	

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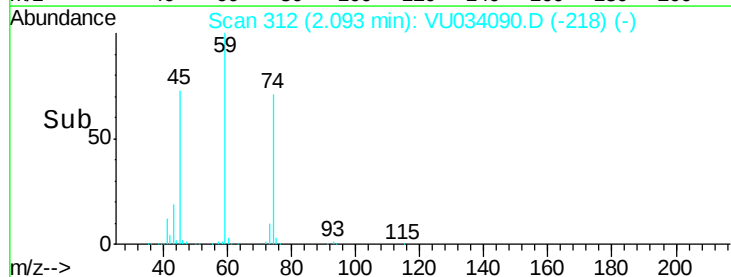
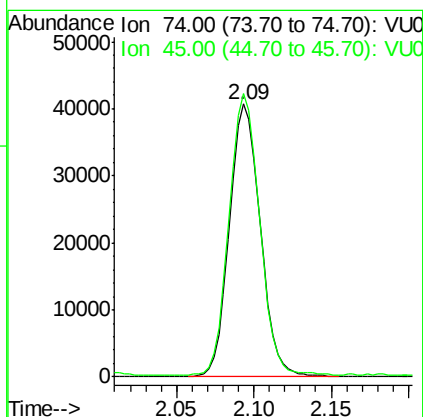
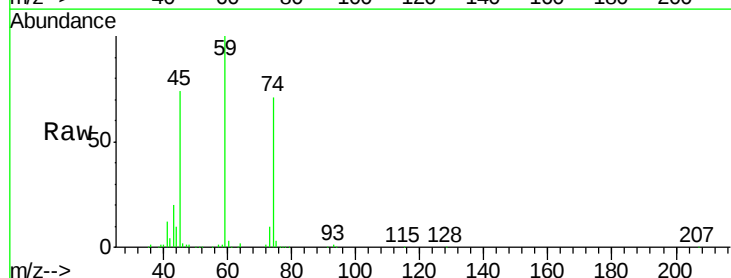
MMDadoda
 8/31/2019 11:24:35 AM

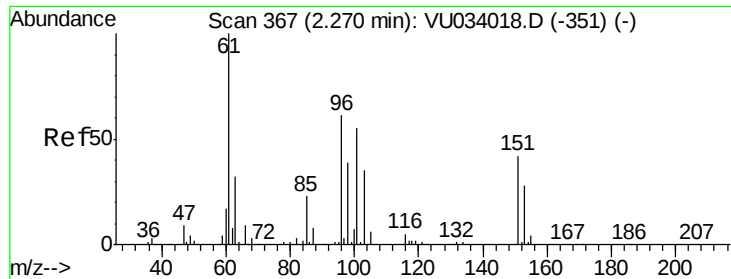


#8

Diethyl Ether
 Concen: 19.808 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	56264		
45	101.9	51.8	155.5	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.354 ug/l

RT: 2.28 min Scan# 369

Delta R.T. 0.01 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

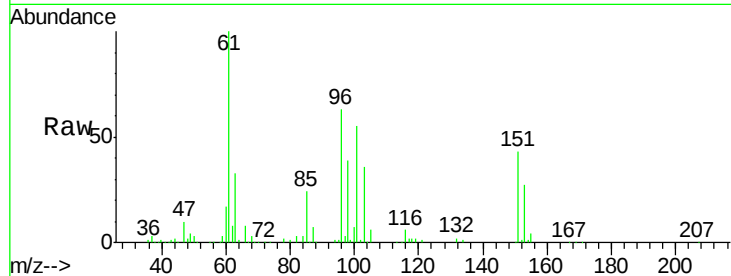
ClientSampleId :

VU0831WBS01

Tot Ion:	101	Resp:	81410
Ion Ratio	Lower	Upper	
101	100		
85	43.9	34.2	51.2
151	78.6	61.4	92.2

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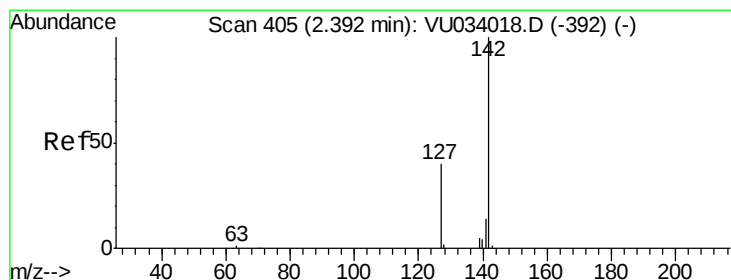
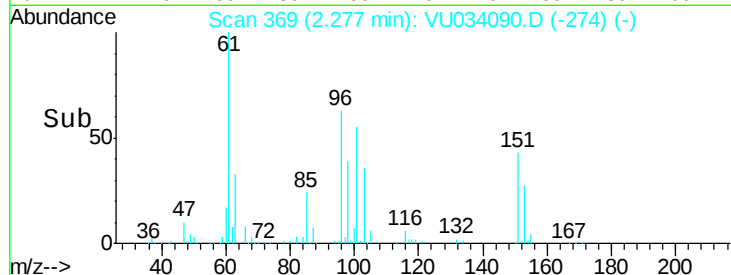
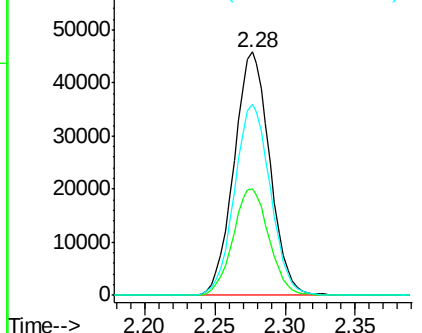
MMDadoda
8/31/2019 11:24:35 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 6.897 ug/l

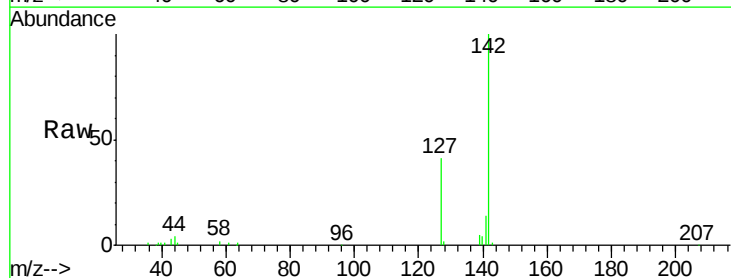
RT: 2.40 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

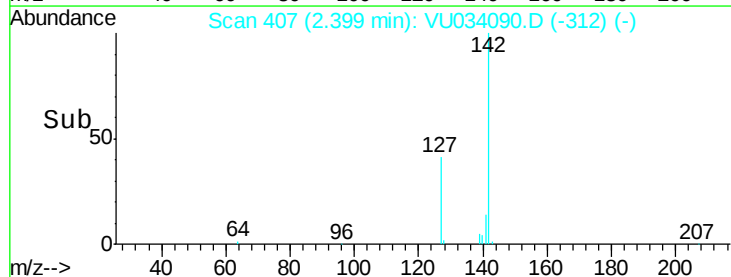
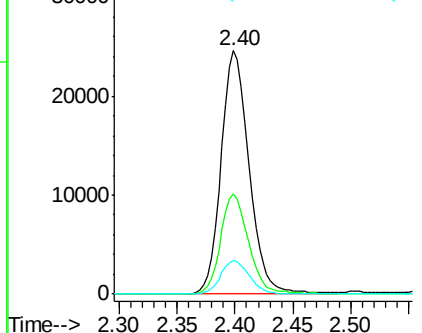
Tgt Ion:	142	Resp:	41156
Ion Ratio	Lower	Upper	
142	100		
127	40.9	32.6	48.8
141	14.1	11.3	16.9

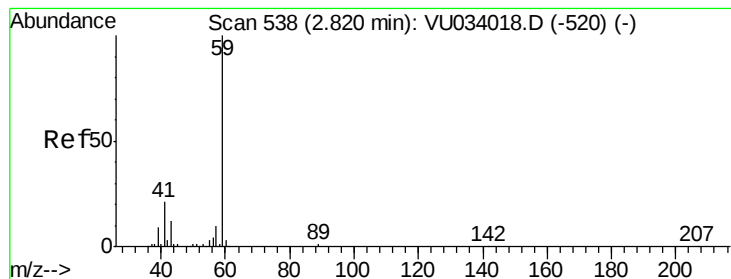


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

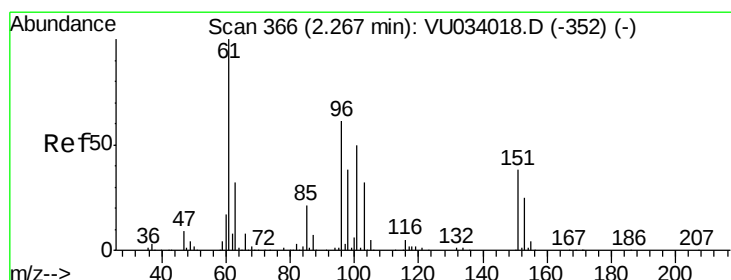
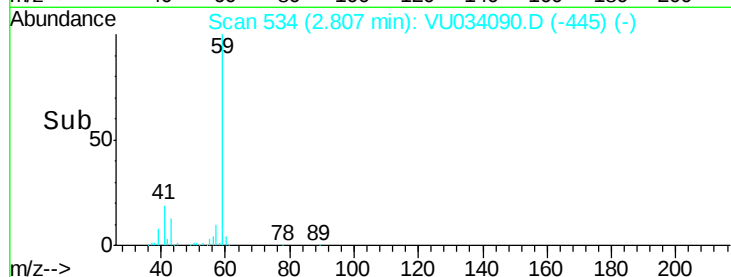
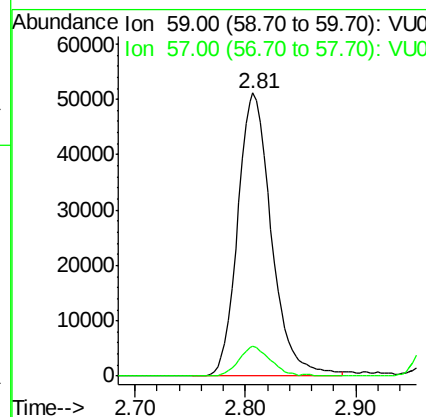
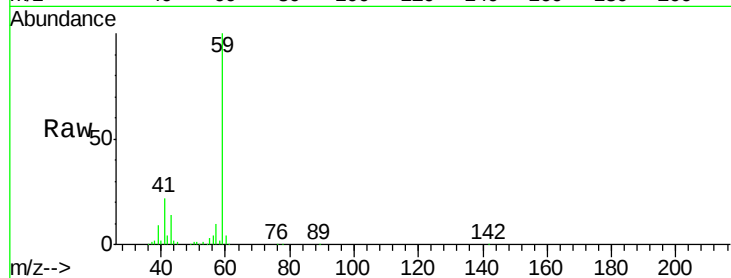
Tert butyl alcohol
 Concen: 85.796 ug/l
 RT: 2.81 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	108533		
57	9.9		8.0	12.0

Manual Integrations
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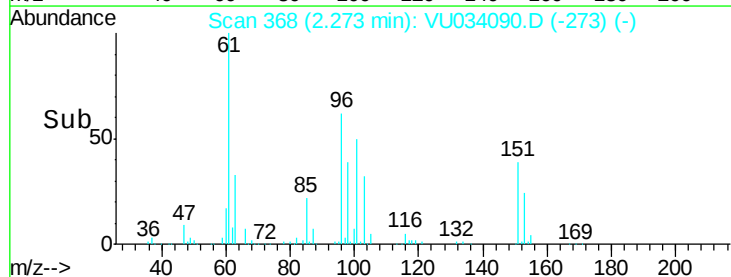
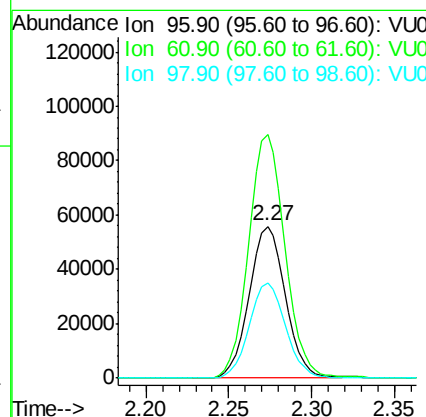
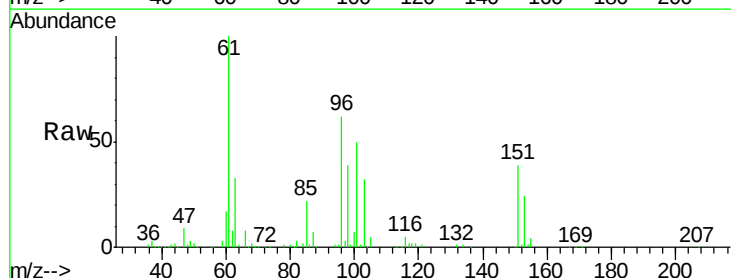
MMDadoda
 8/31/2019 11:24:35 AM

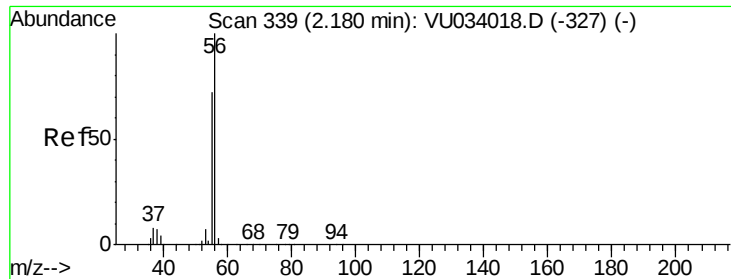


#12

1,1-Dichloroethene
 Concen: 19.765 ug/l
 RT: 2.27 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	84709		
61	160.5		131.3	196.9
98	62.5		50.3	75.5





#13

Acrolein

Concen: 72.112 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 56 Resp: 38375

Ion Ratio Lower Upper

56 100

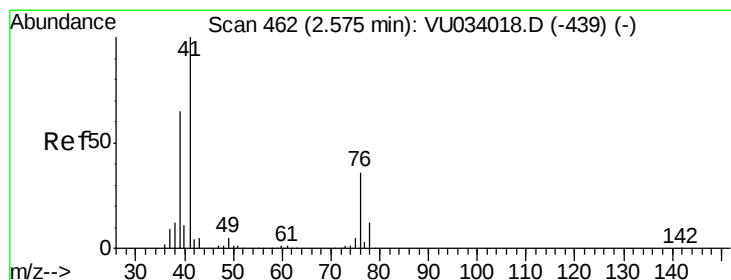
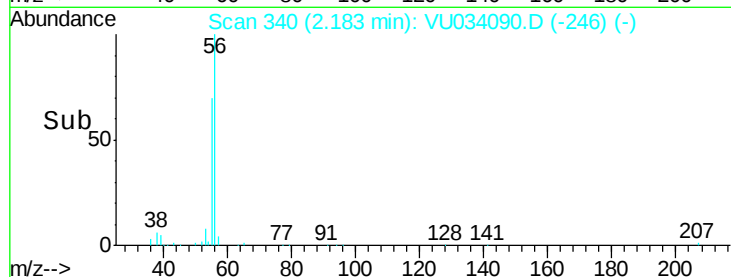
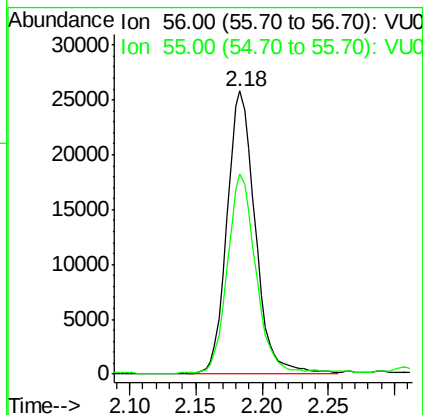
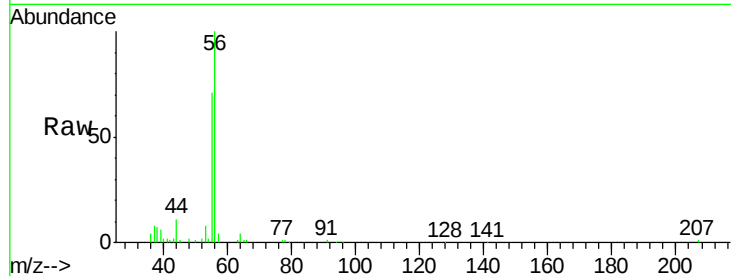
55 71.2 57.1 85.7

Manual Integrations

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#14

Allyl chloride

Concen: 17.355 ug/l

RT: 2.58 min Scan# 463

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

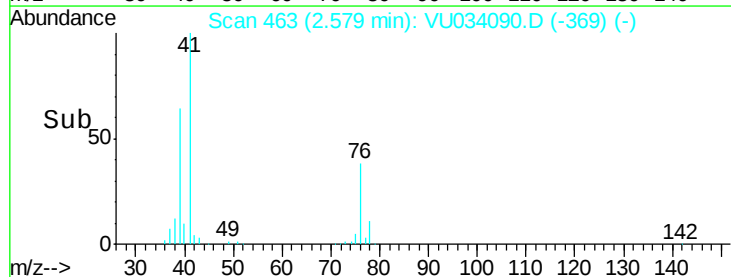
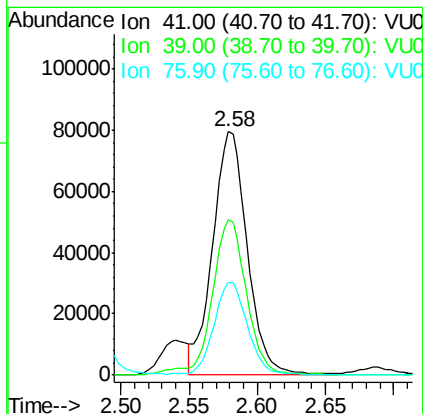
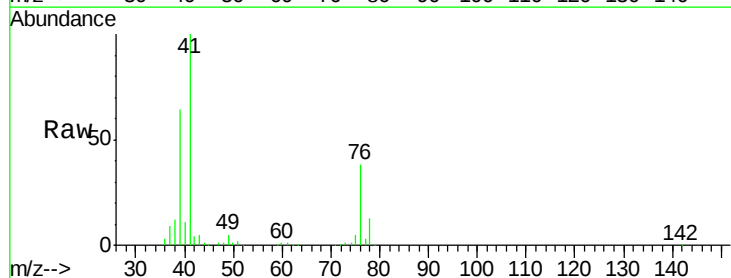
Tgt Ion: 41 Resp: 139849

Ion Ratio Lower Upper

41 100

39 62.8 46.8 70.2

76 37.0 26.6 40.0





#15

Acrylonitrile

Concen: 97.236 ug/l

RT: 2.92 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

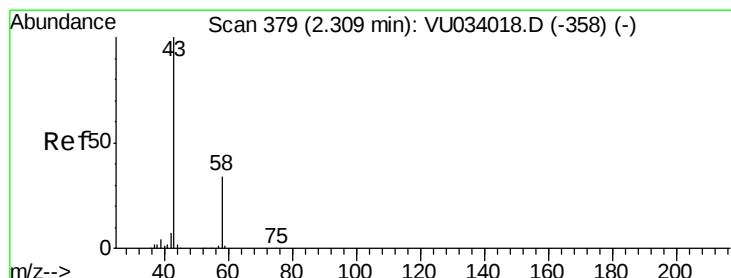
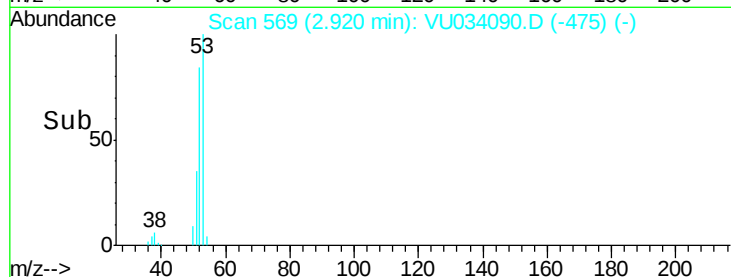
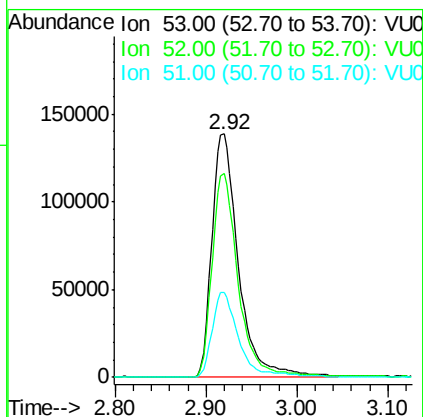
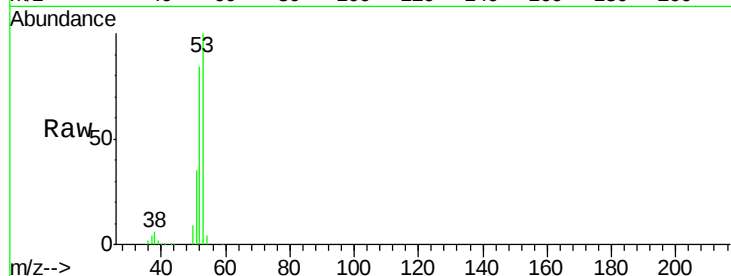
ClientSampleId :

VU0831WBS01

Tot Ion:	53	Resp:	282256
Ion Ratio	Lower	Upper	
53	100		
52	82.3	65.7	98.5
51	35.3	27.9	41.9

Manual Integrations
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#16

Acetone

Concen: 90.610 ug/l

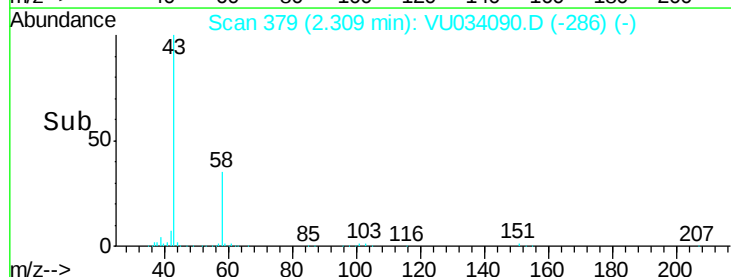
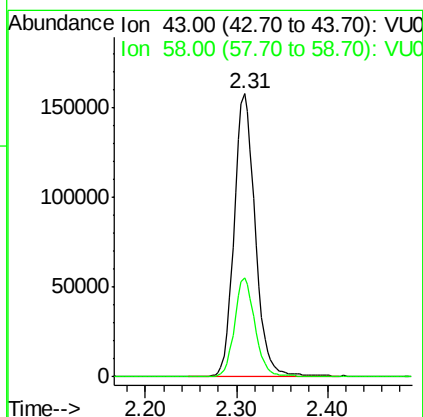
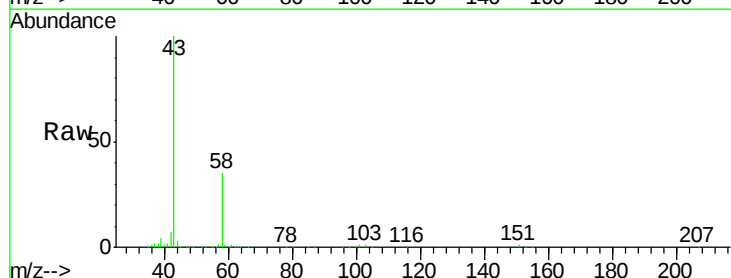
RT: 2.31 min Scan# 379

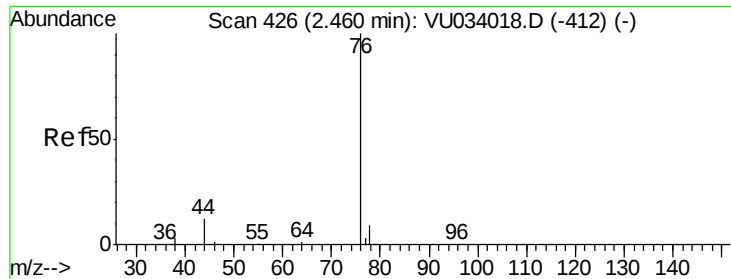
Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Tgt Ion:	43	Resp:	253616
Ion Ratio	Lower	Upper	
43	100		
58	35.0	26.8	40.2





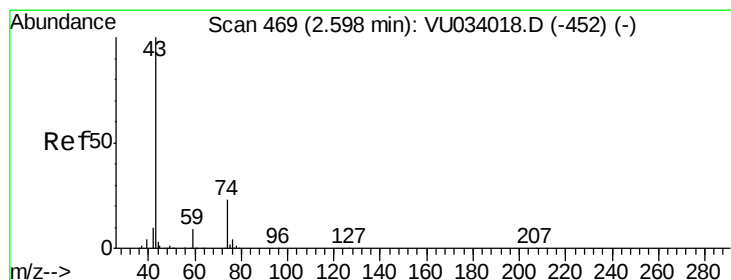
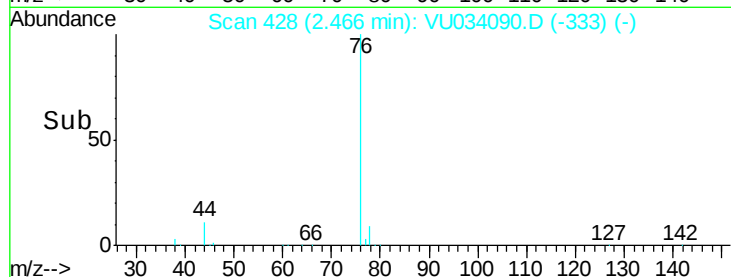
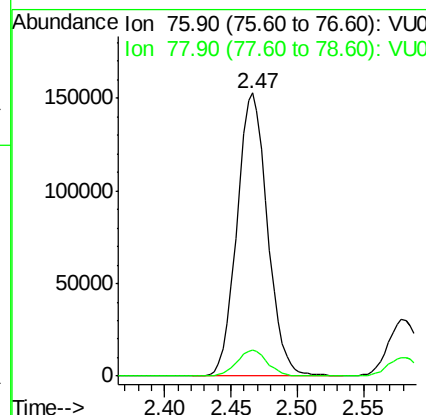
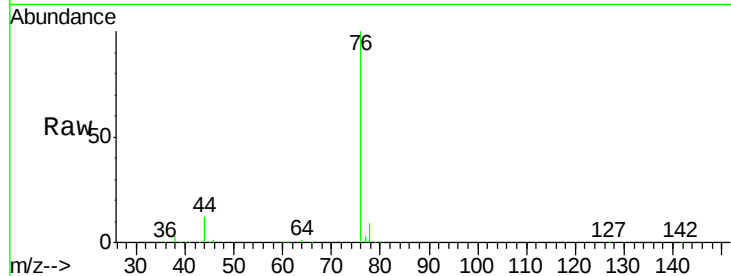
#17
Carbon Disulfide
Concen: 17.986 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.01 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.1	10.7

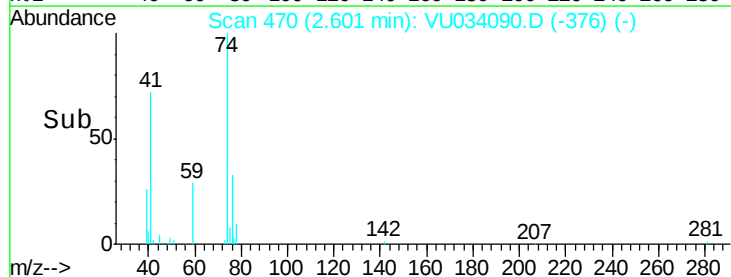
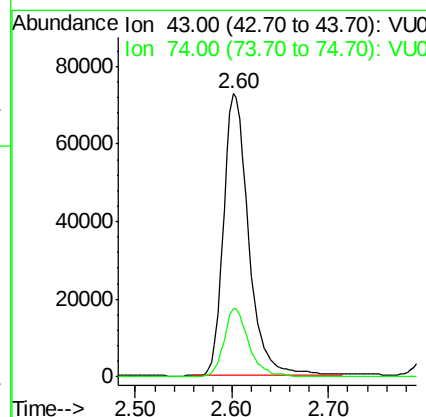
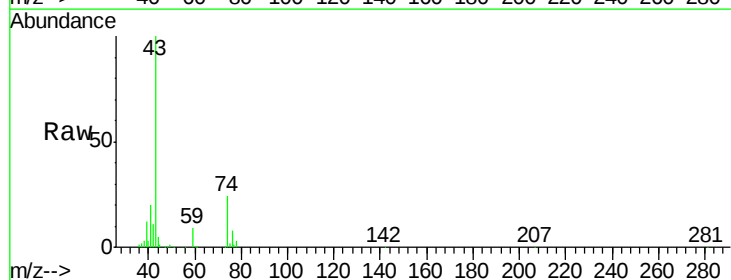
Manual Integrations
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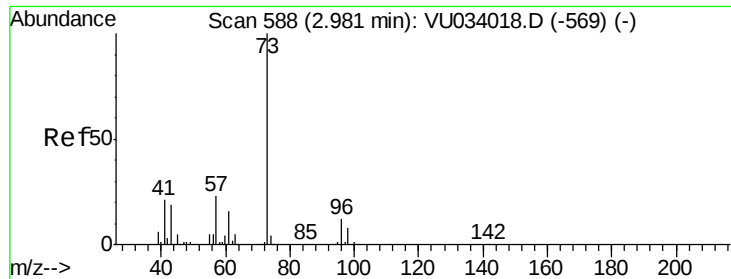
MMDadoda
8/31/2019 11:24:35 AM



#18
Methyl Acetate
Concen: 18.217 ug/l
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.3	19.2	28.8





#19

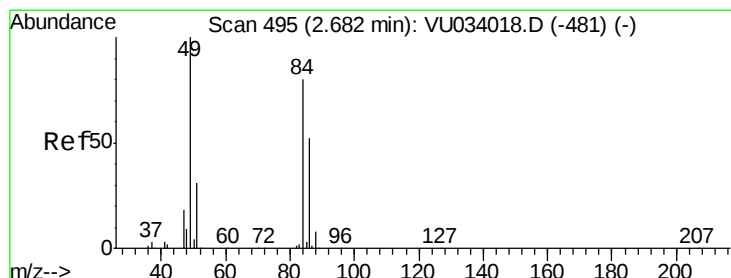
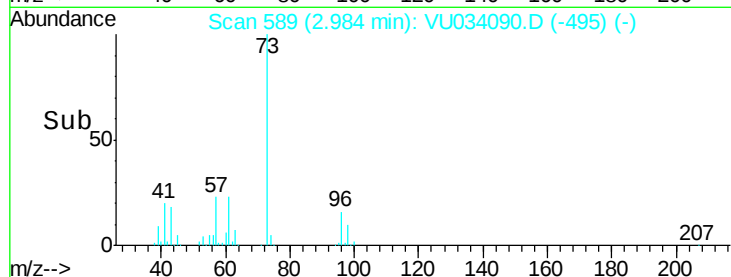
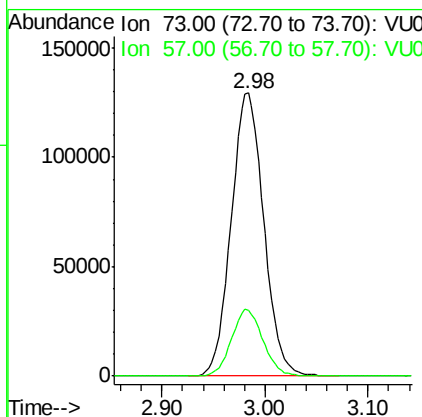
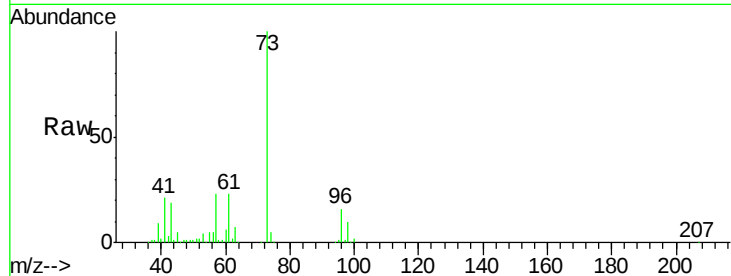
Methyl tert-butyl Ether
 Concen: 20.280 ug/l
 RT: 2.98 min Scan# 589
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampled :
 VU0831WBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.3	18.3	27.5

Manual Integrations
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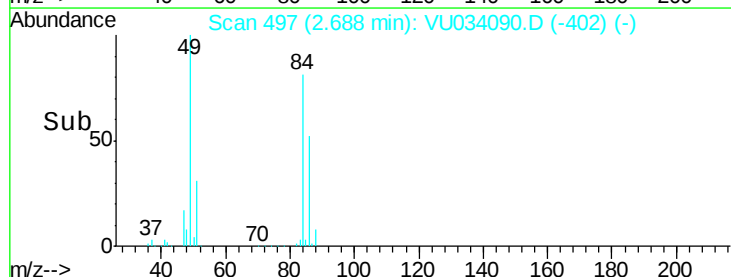
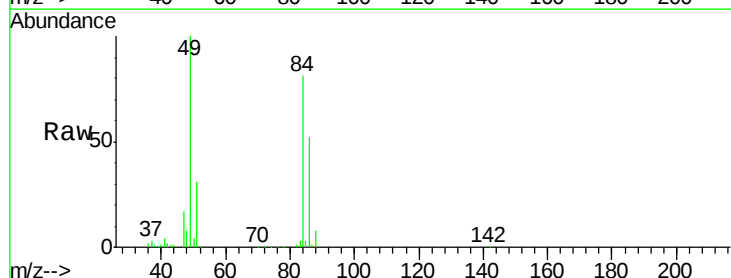
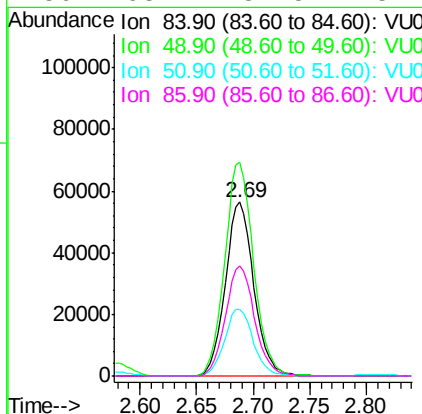
MMDadoda
 8/31/2019 11:24:35 AM

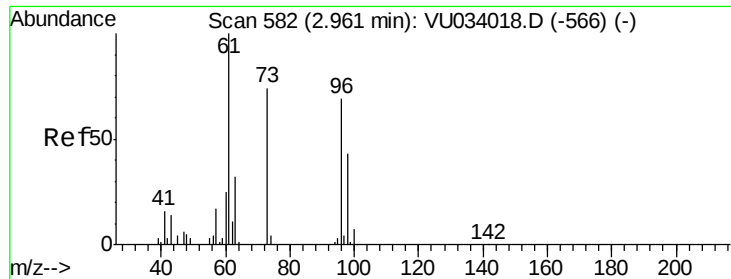


#20

Methylene Chloride
 Concen: 18.637 ug/l
 RT: 2.69 min Scan# 497
 Delta R.T. 0.01 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
84	100		
49	123.1	100.2	150.4
51	38.5	30.8	46.2
86	63.7	52.5	78.7





#21

trans-1,2-Dichloroethene

Concen: 19.548 ug/l

RT: 2.97 min Scan# 584

Delta R.T. 0.01 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

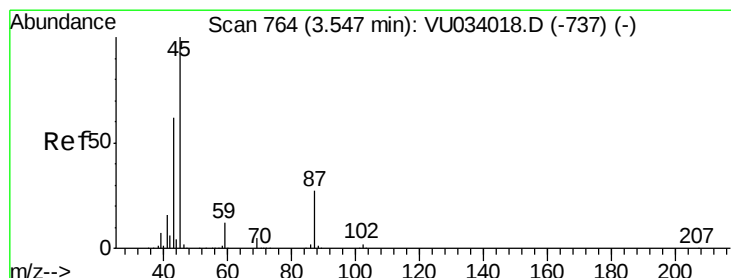
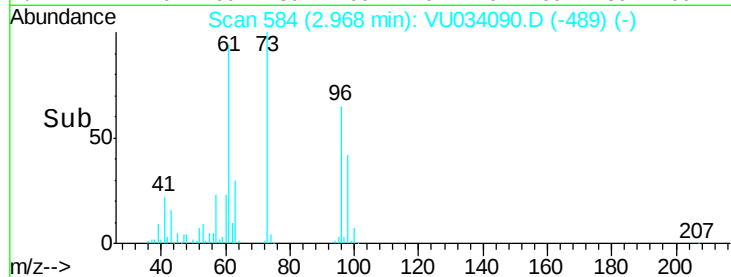
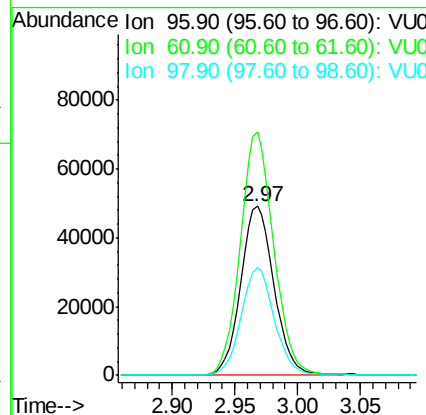
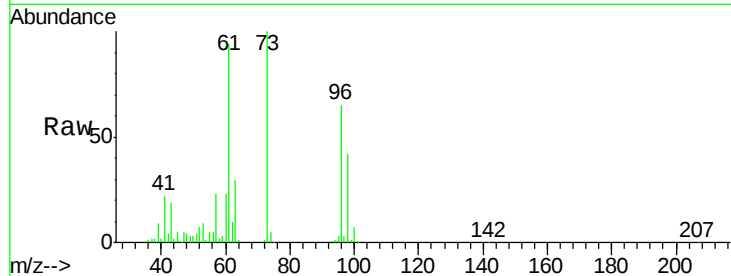
ClientSampleId :

VU0831WBS01

Tot Ion:	96	Resp:	90925
Ion	Ratio	Lower	Upper
96	100		
61	144.2	115.5	173.3
98	63.6	50.1	75.1

Manual Integrations
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#22

Diisopropyl ether

Concen: 20.423 ug/l

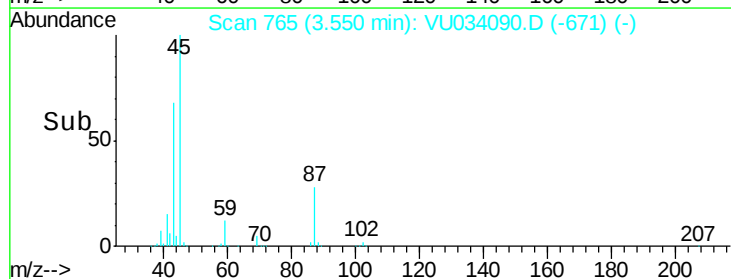
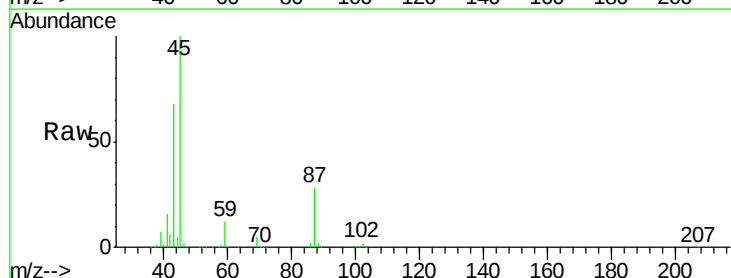
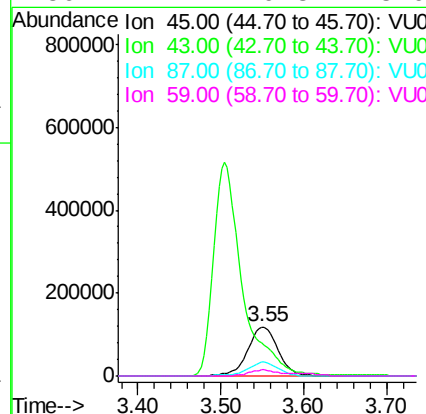
RT: 3.55 min Scan# 765

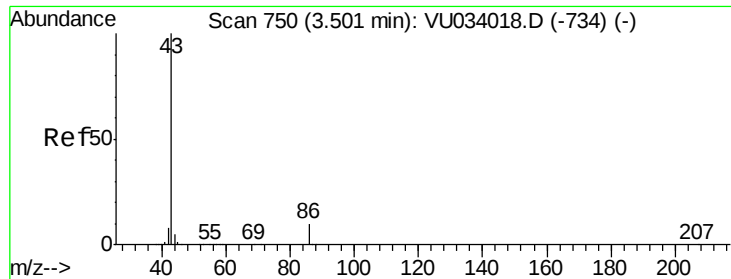
Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Tgt Ion:	45	Resp:	301562
Ion	Ratio	Lower	Upper
45	100		
43	68.1	49.7	74.5
87	28.2	21.8	32.8
59	12.1	9.3	13.9





#23

Vinyl Acetate

Concen: 98.599 ug/l

RT: 3.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 43 Resp: 1250664

Ion Ratio Lower Upper

43 100

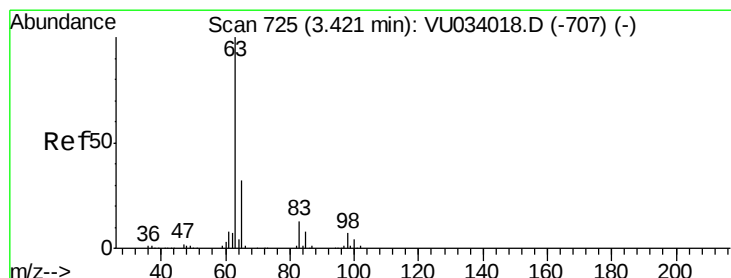
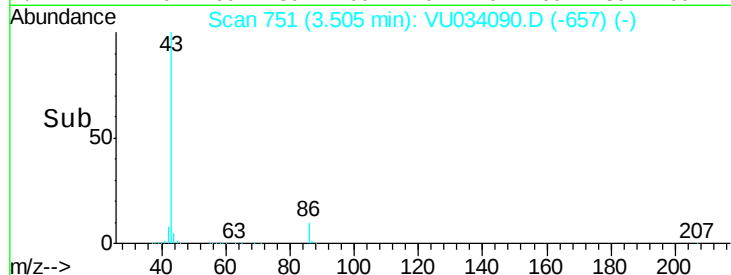
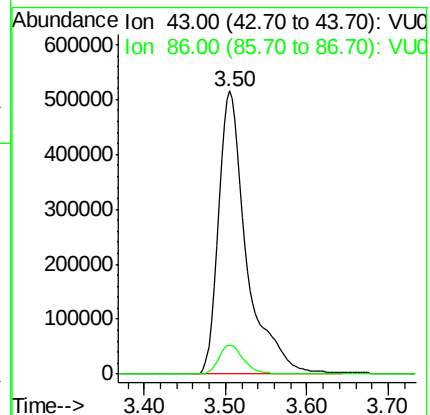
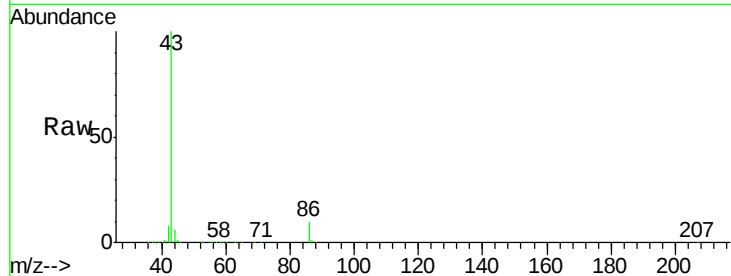
86 10.2 8.3 12.5

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 19.989 ug/l

RT: 3.43 min Scan# 727

Delta R.T. 0.01 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

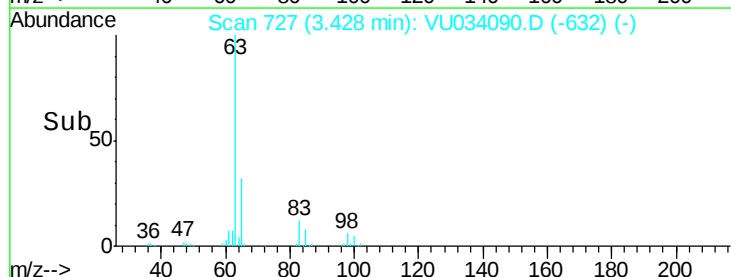
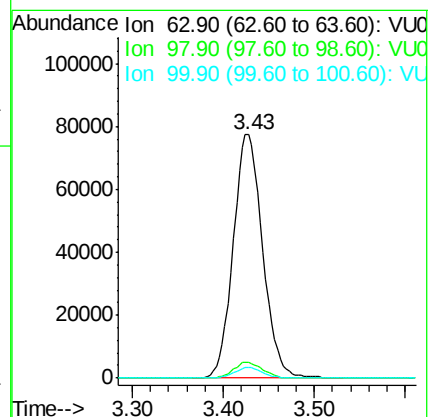
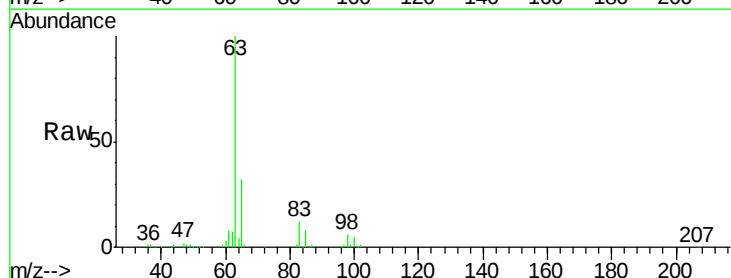
Tgt Ion: 63 Resp: 174253

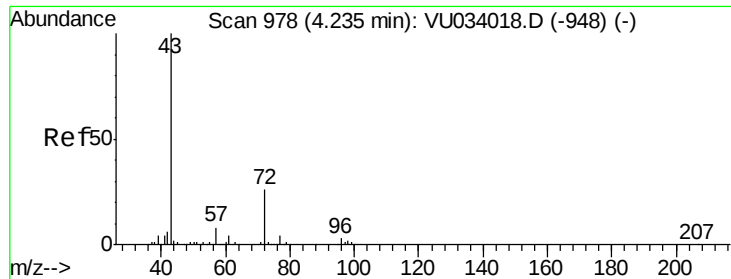
Ion Ratio Lower Upper

63 100

98 6.4 3.3 9.8

100 4.5 2.0 6.0





#25

2-Butanone

Concen: 97.221 ug/l

RT: 4.24 min Scan# 979

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 43 Resp: 378592

Ion Ratio Lower Upper

43 100

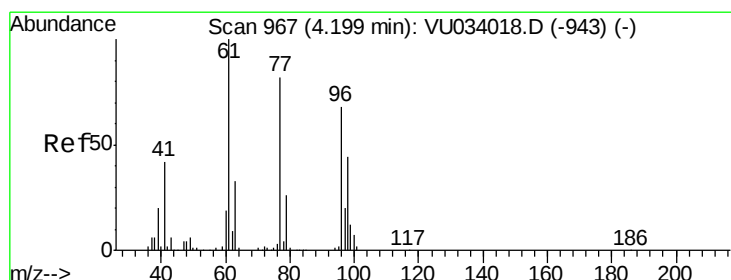
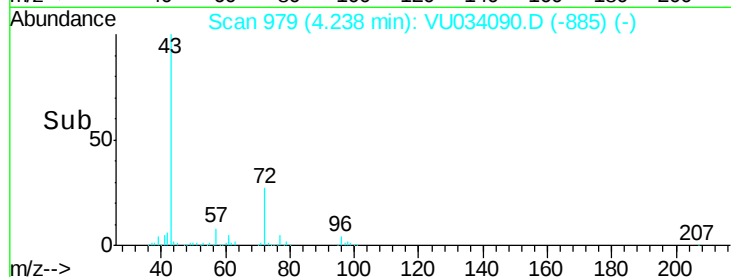
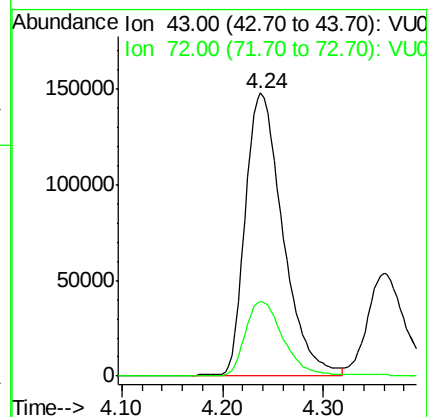
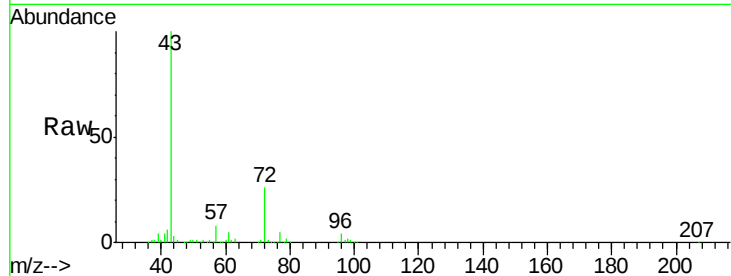
72 26.5 21.2 31.8

Manual Integrations

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MMDadoda

8/31/2019 11:24:35 AM



#26

2,2-Dichloropropane

Concen: 19.271 ug/l

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034090.D

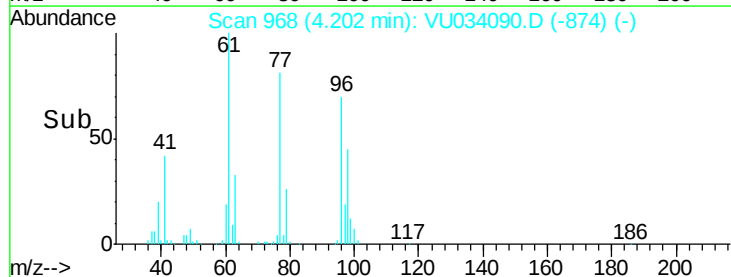
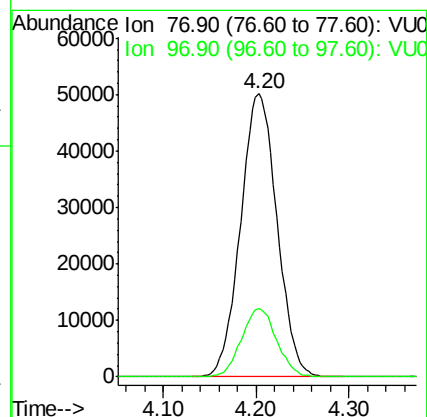
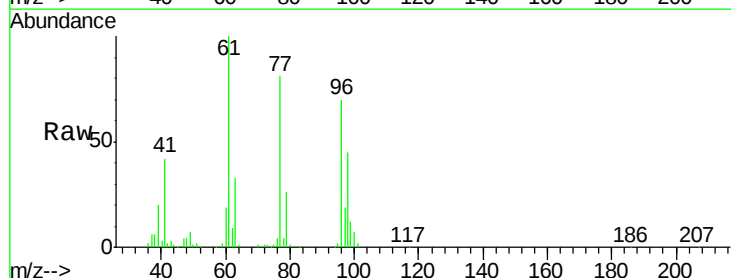
Acq: 30 Aug 2019 12:02

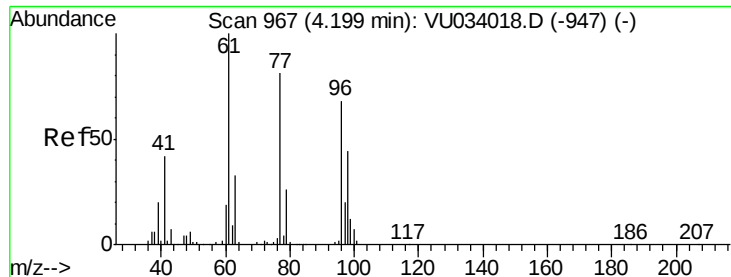
Tgt Ion: 77 Resp: 136699

Ion Ratio Lower Upper

77 100

97 23.3 11.6 34.7





#27

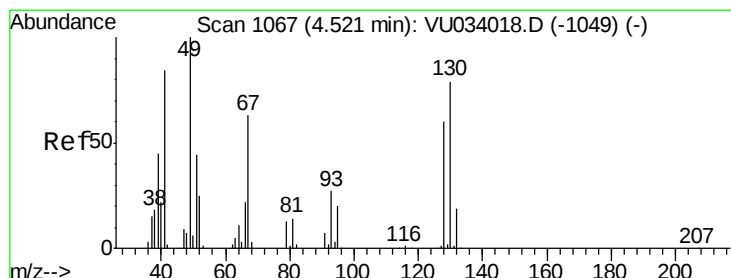
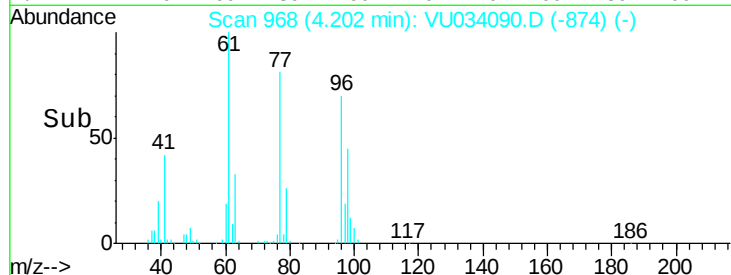
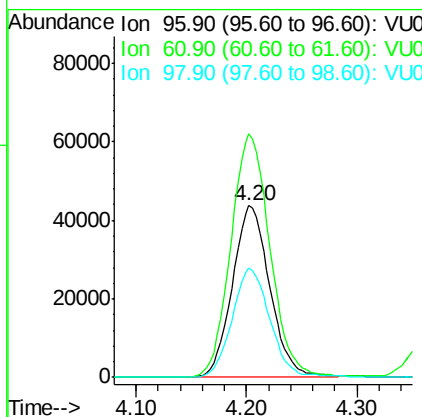
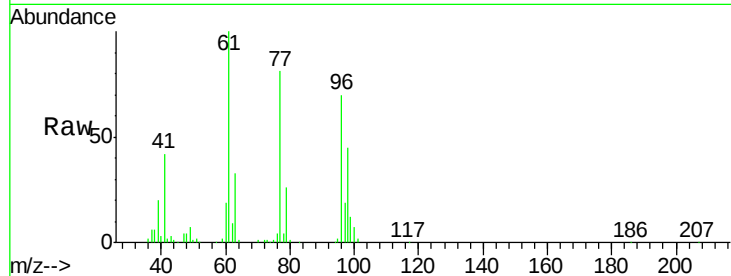
cis-1,2-Dichloroethene
 Concen: 19.718 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

Tot Ion	Ratio	Resp Lower	Upper
96	100		
61	147.9	0.0	303.0
98	63.4	0.0	129.2

Manual Integrations
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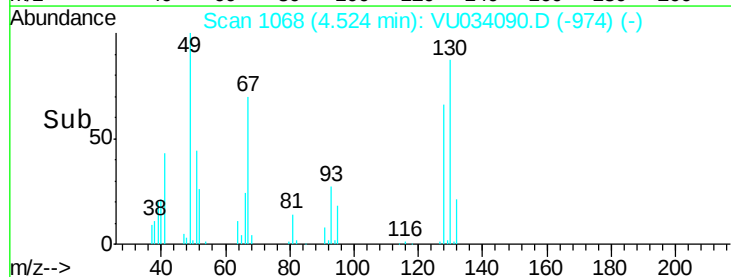
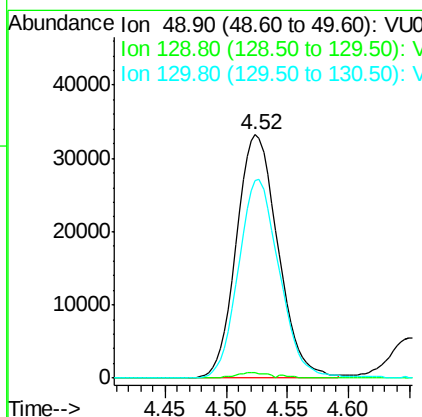
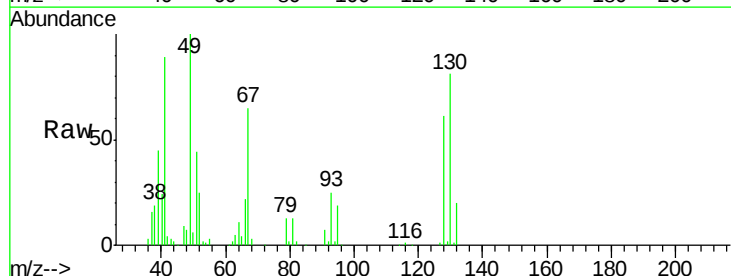
MMDadoda
 8/31/2019 11:24:35 AM

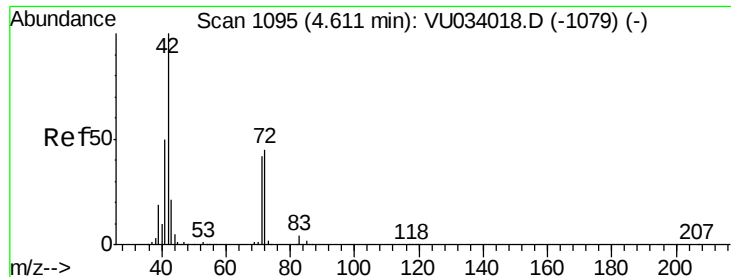


#28

Bromochloromethane
 Concen: 18.317 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp Lower	Upper
49	100		
129	1.6	0.0	3.6
130	80.0	62.8	94.2





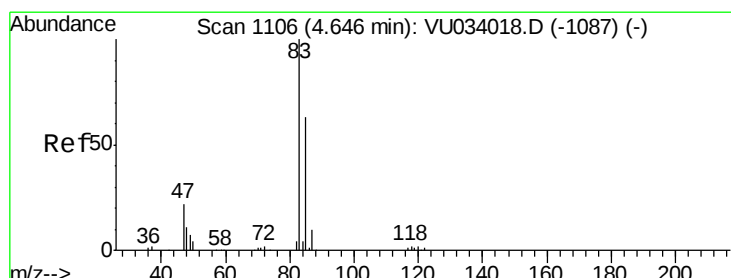
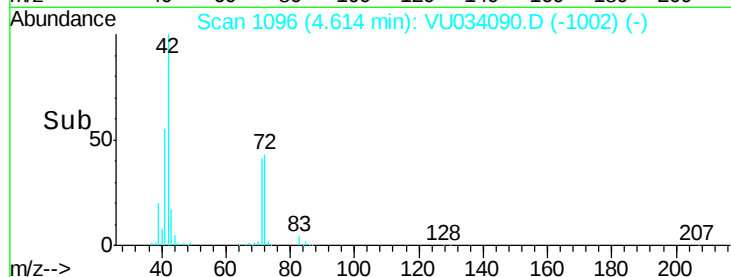
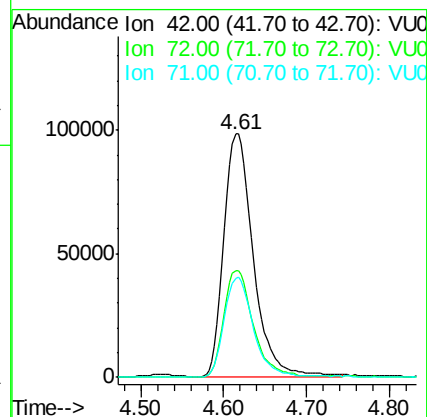
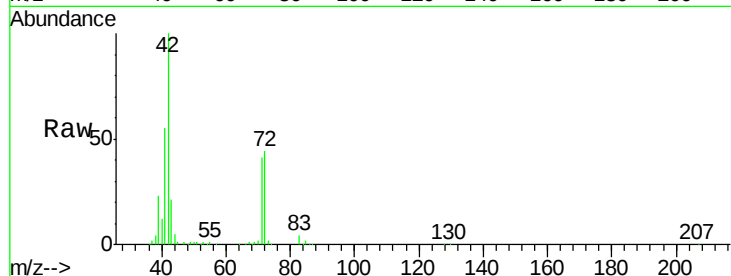
#29
Tetrahydrofuran
Concen: 101.278 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
42	100	243220		
72	44.4		35.8	53.6
71	40.7		34.0	51.0

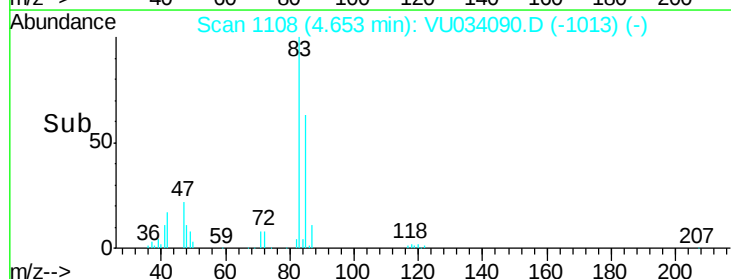
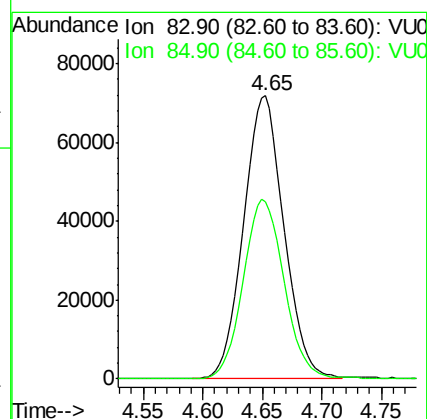
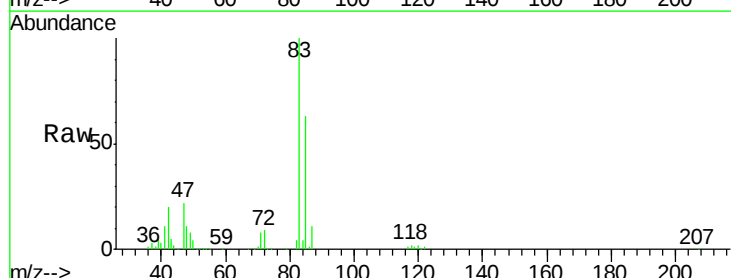
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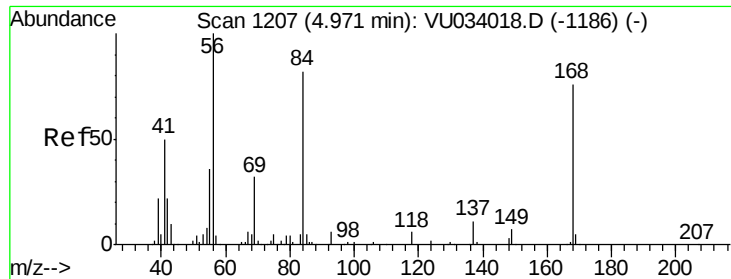
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#30
Chloroform
Concen: 19.415 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	168866		
85	62.6		50.7	76.1





#31

Cyclohexane

Concen: 18.823 ug/l

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

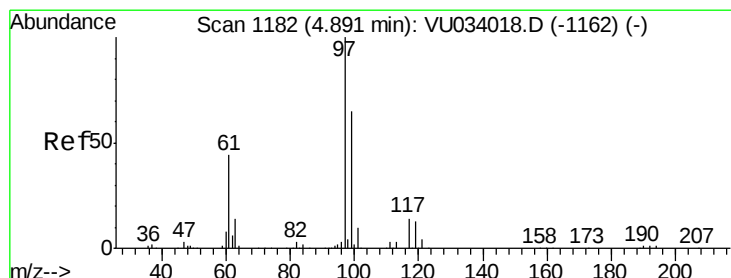
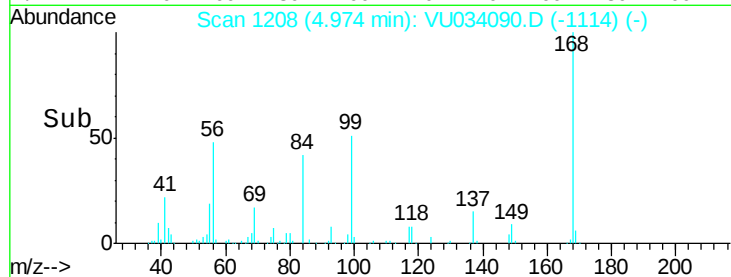
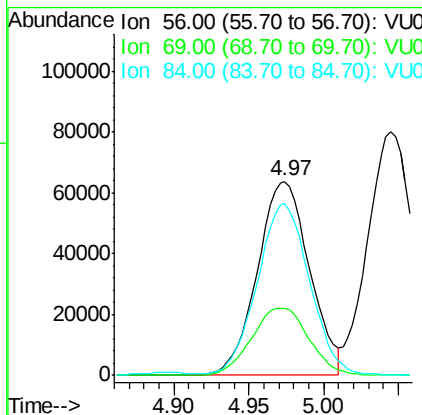
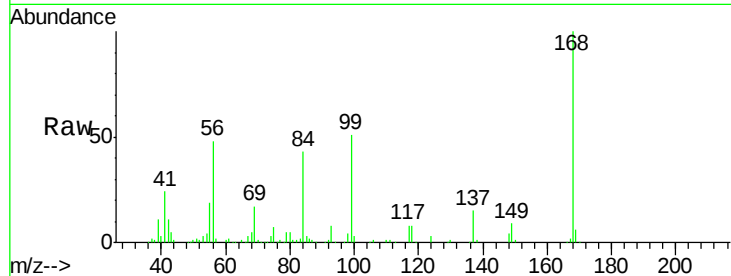
ClientSampleId :

VU0831WBS01

Tot Ion:	56	Resp:	154186
Ion Ratio	Lower	Upper	
56	100		
69	34.6	25.4	38.0
84	87.5	65.8	98.8

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#32

1,1,1-Trichloroethane

Concen: 19.905 ug/l

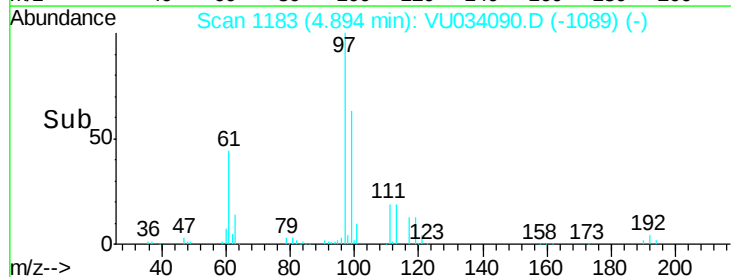
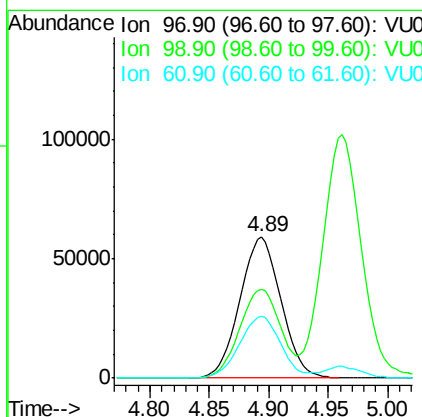
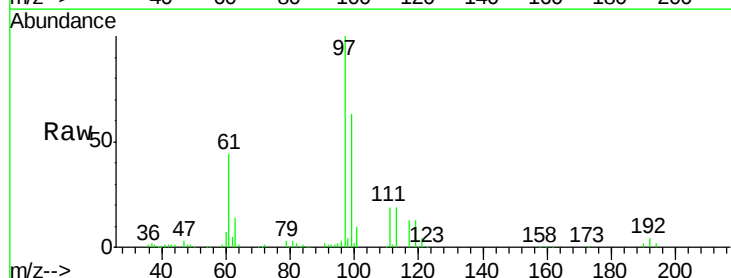
RT: 4.89 min Scan# 1183

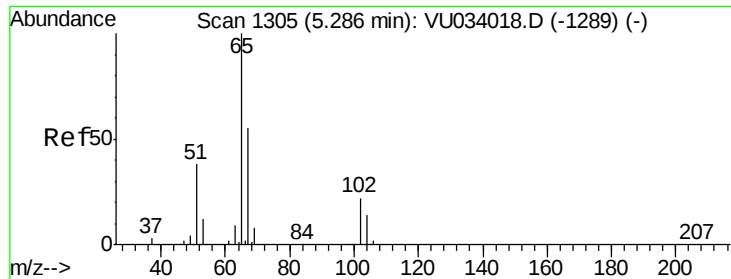
Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Tgt Ion:	97	Resp:	141795
Ion Ratio	Lower	Upper	
97	100		
99	62.5	51.8	77.6
61	43.9	35.3	52.9





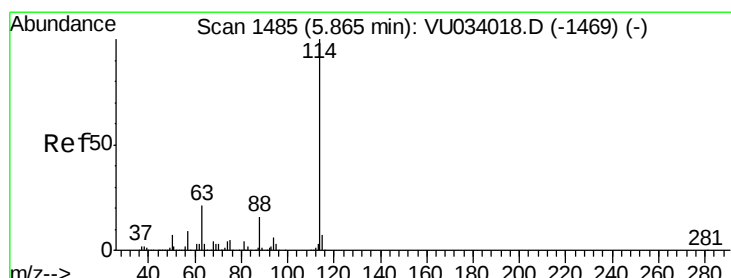
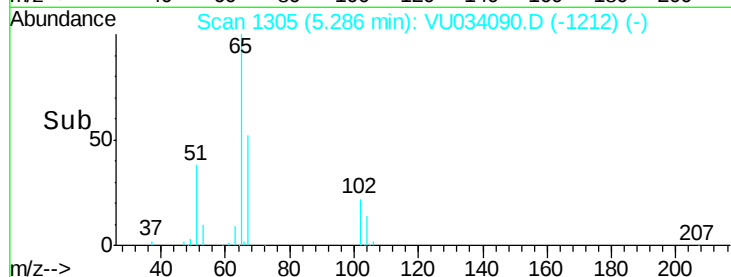
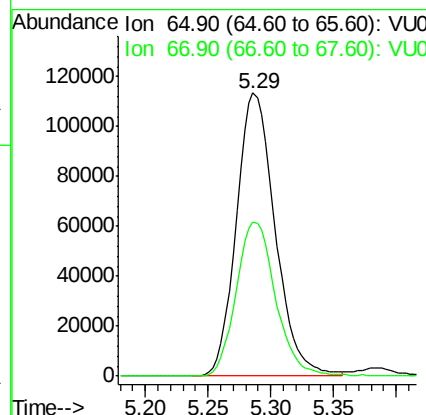
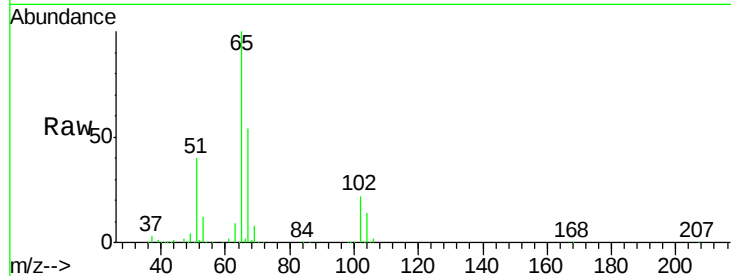
#33
 1,2-Dichloroethane-d4
 Concen: 44.488 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	244041		
67	55.2	0.0	110.6	

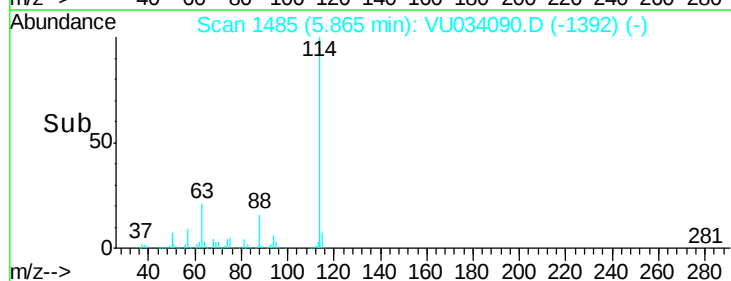
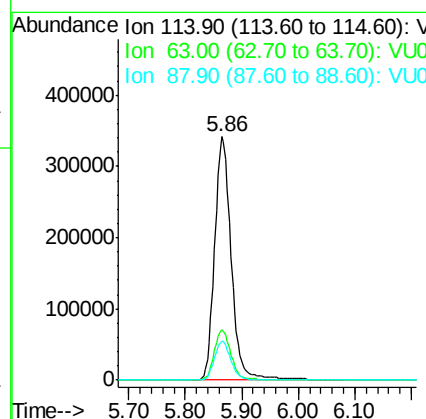
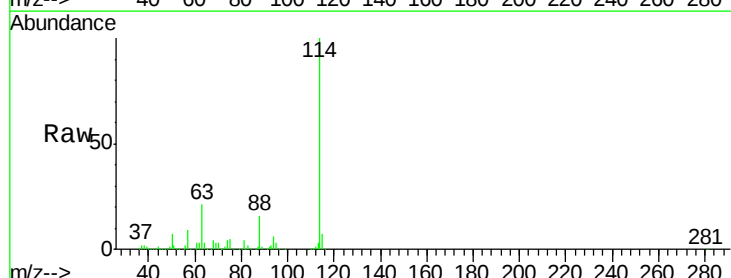
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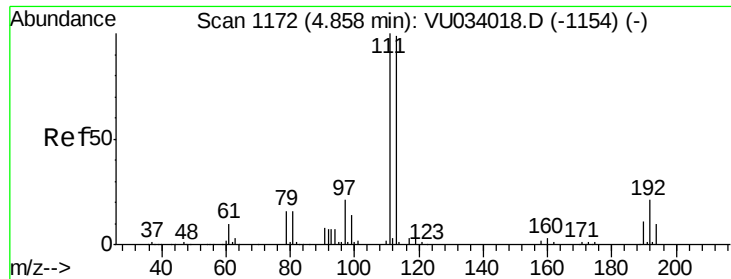
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	695833		
63	20.7	0.0	42.0	
88	16.2	0.0	32.0	





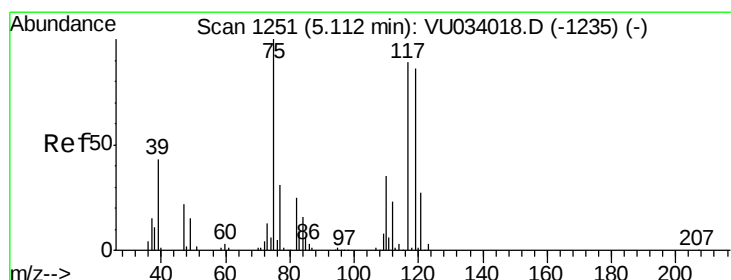
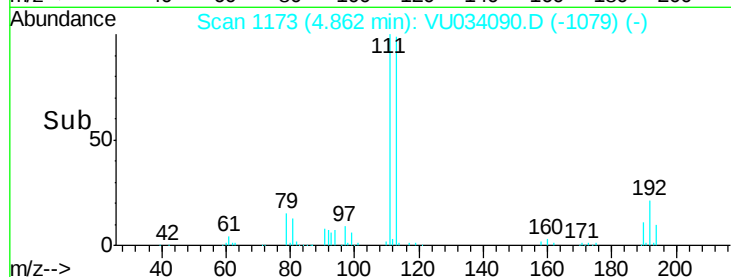
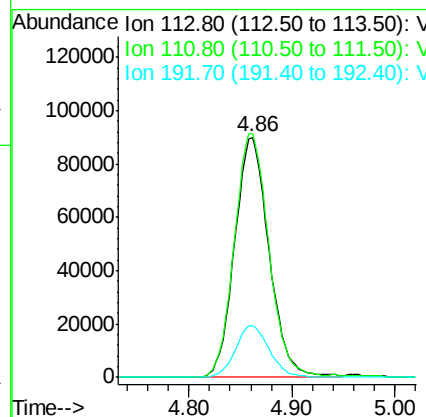
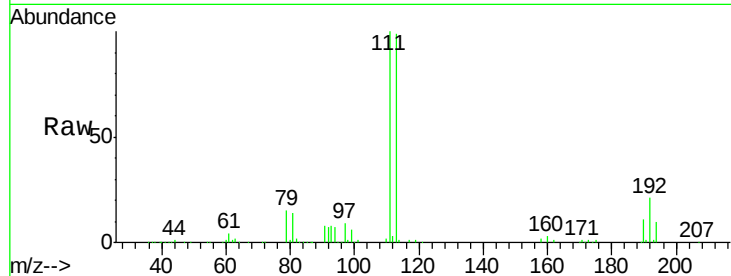
#35
 Dibromofluoromethane
 Concen: 43.254 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	208755		
111	101.9		81.7	122.5
192	21.3		17.1	25.7

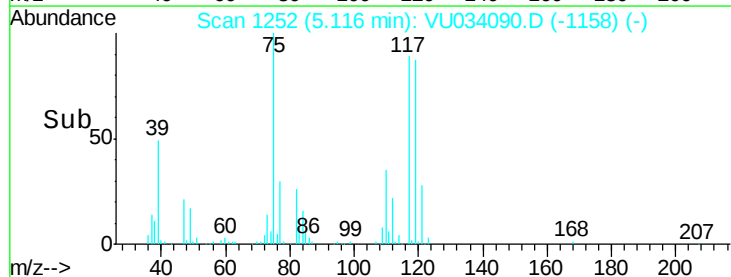
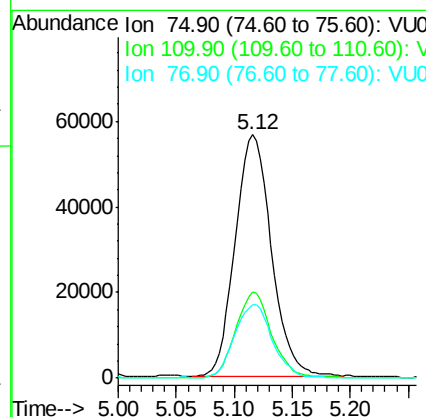
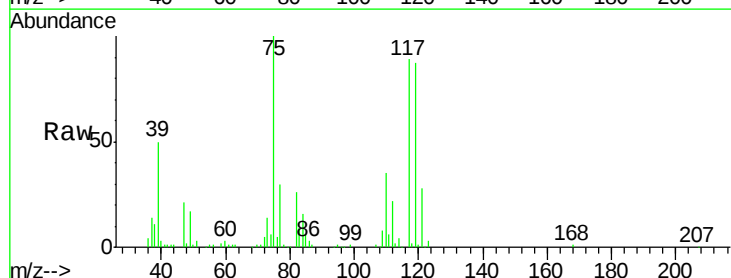
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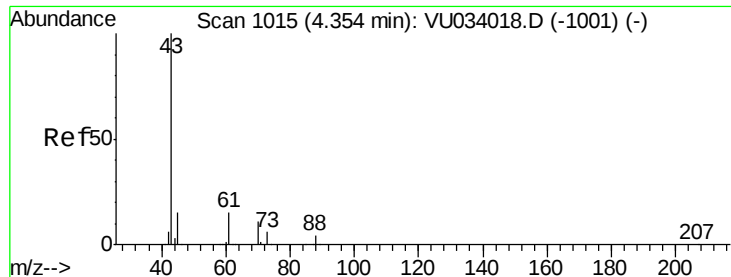
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#36
 1,1-Dichloropropene
 Concen: 18.596 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	122392		
110	35.7		17.8	53.5
77	31.2		25.0	37.4





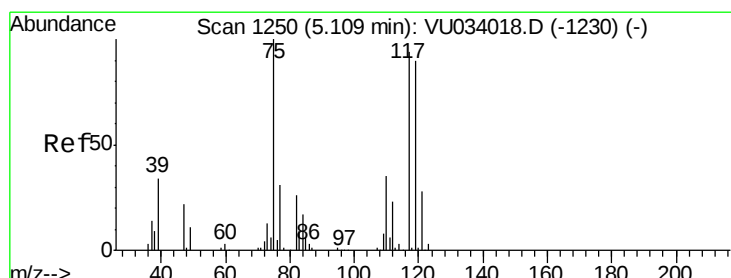
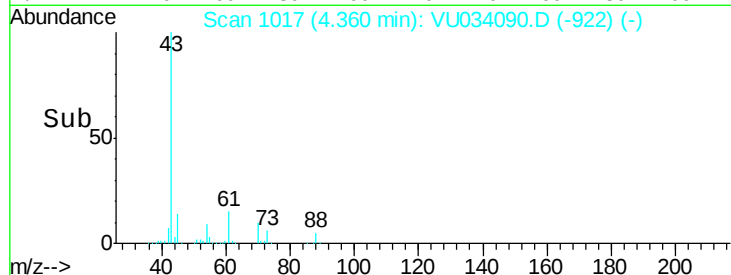
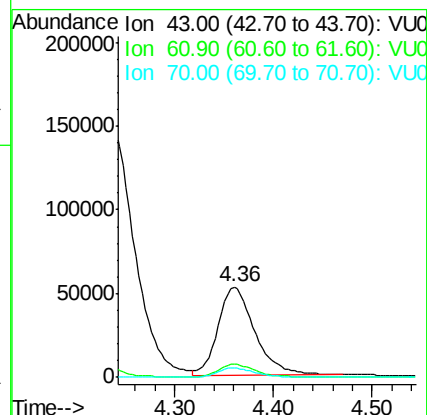
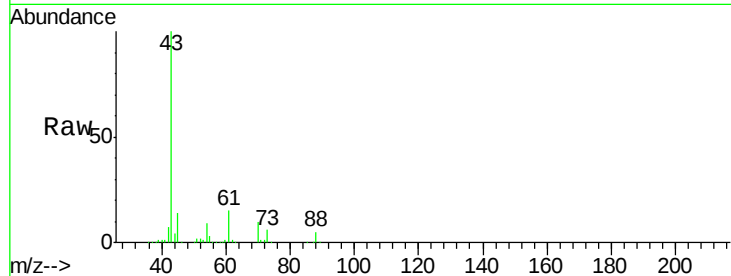
#37
Ethyl Acetate
Concen: 18.737 ug/l
RT: 4.36 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampled :
VU0831WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	11.5	17.3
70	10.7	8.6	12.8

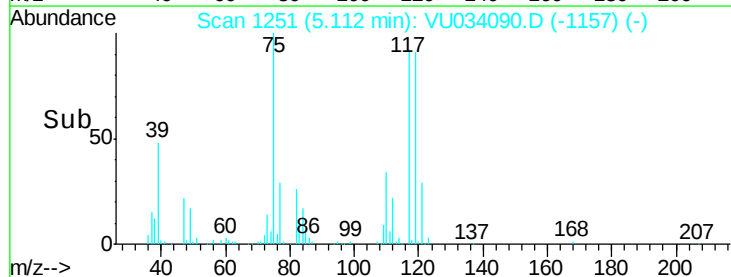
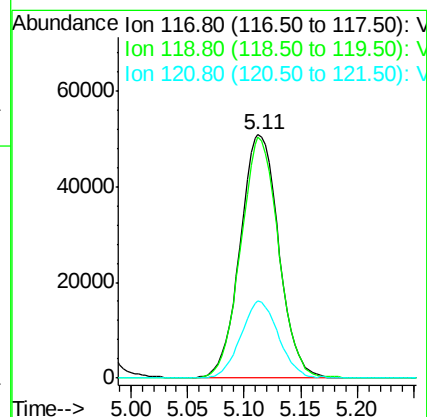
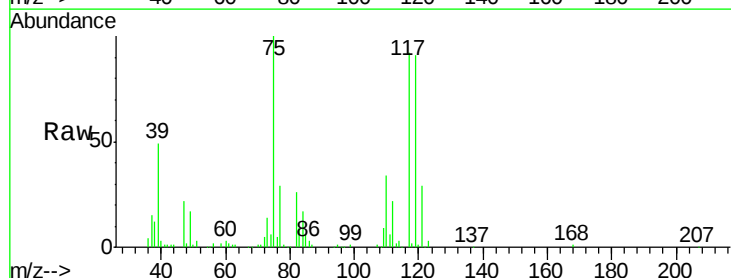
Manual Integrations
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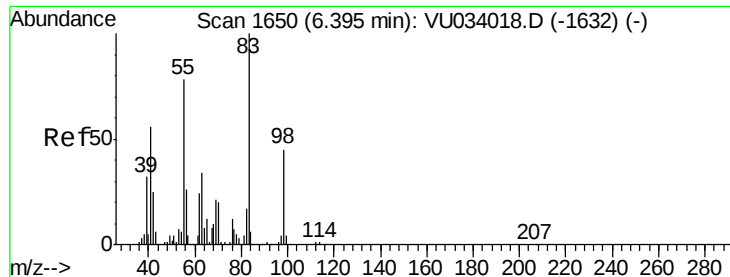
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#38
Carbon Tetrachloride
Concen: 18.828 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.0	115.4
121	31.8	23.9	35.9





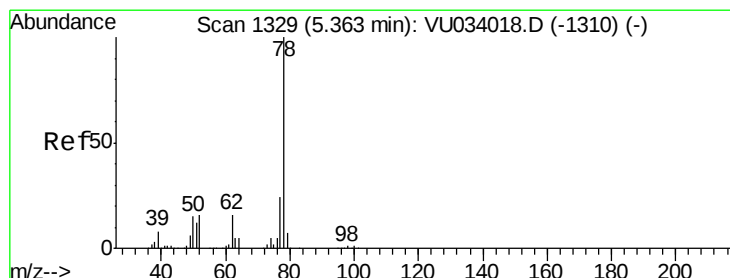
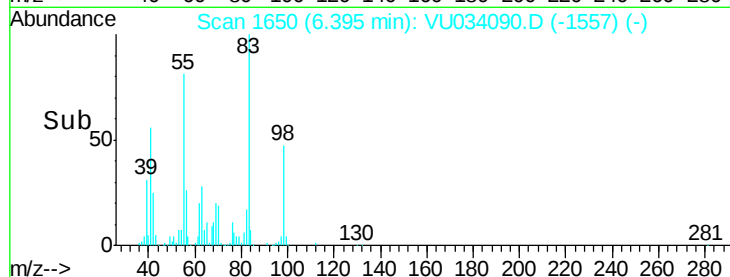
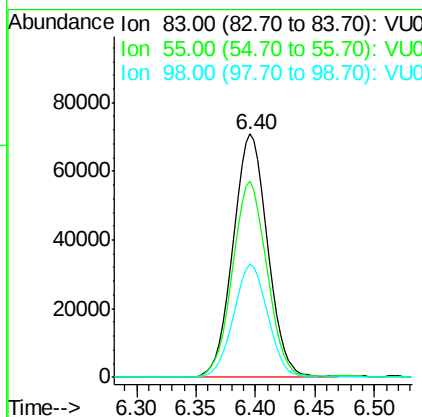
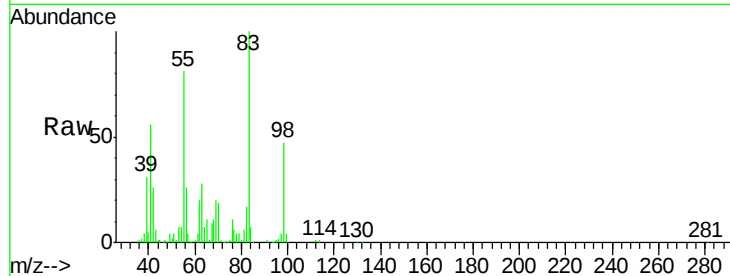
#39
Methvlcvclohexane
Concen: 18.438 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.7	62.3	93.5
98	46.6	36.2	54.2

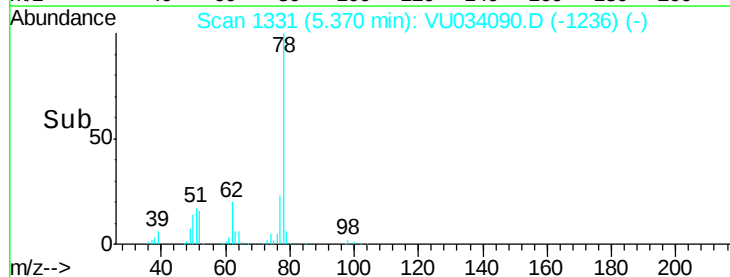
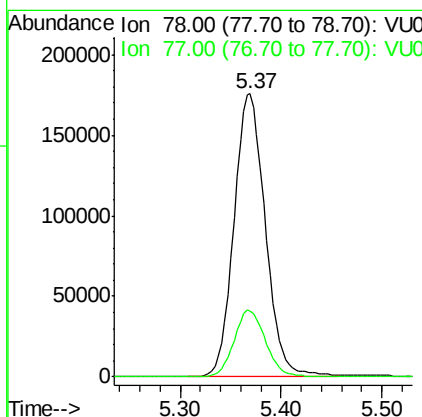
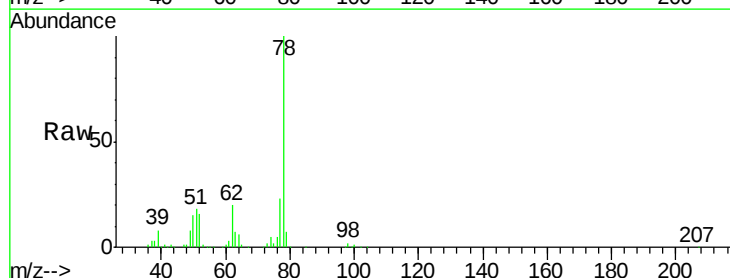
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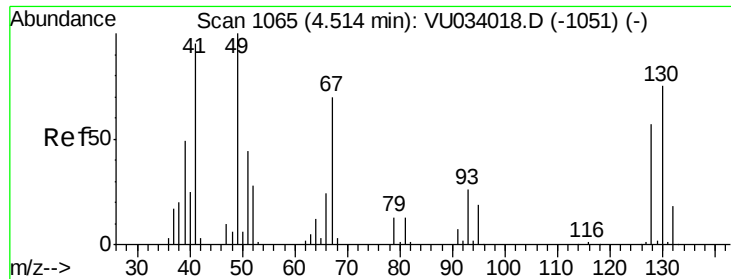
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#40
Benzene
Concen: 19.056 ug/l
RT: 5.37 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6





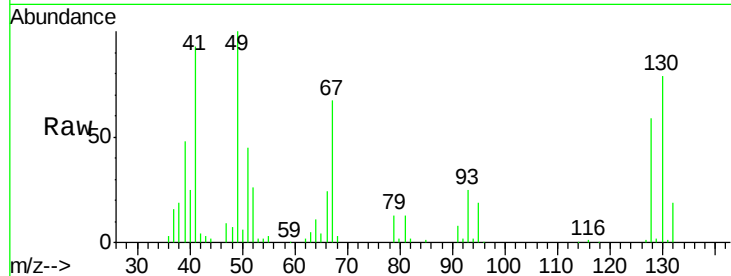
#41
Methacrylonitrile
Concen: 19.392 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. 0.01 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

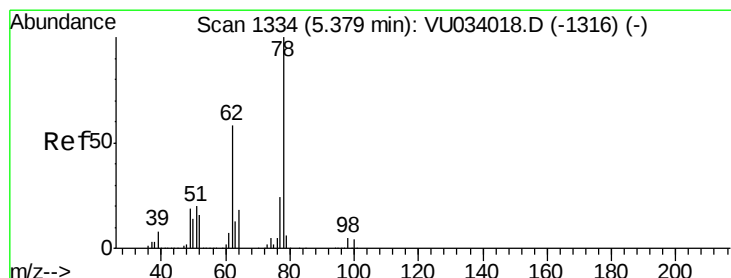
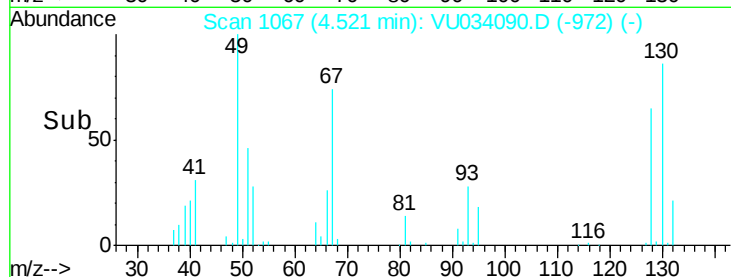
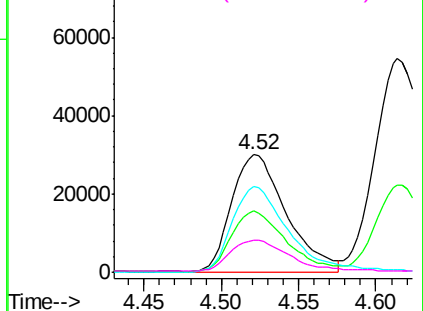
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.5	42.1	63.1	
67	76.6	61.0	91.4	
52	28.5	23.3	34.9	

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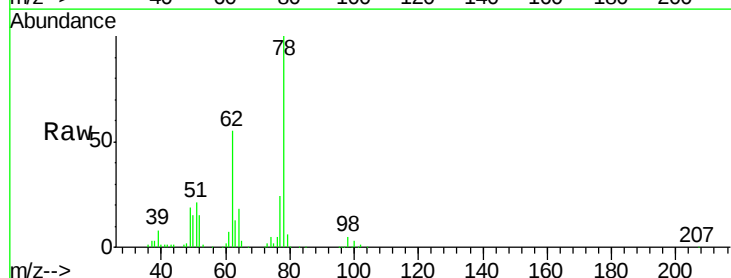


Abundance Ion 41.00 (40.70 to 41.70): VU034018.D (-1051) (-)
Ion 39.00 (38.70 to 39.70): VU034018.D (-1051) (-)
Ion 67.00 (66.70 to 67.70): VU034018.D (-1051) (-)
Ion 52.00 (51.70 to 52.70): VU034018.D (-1051) (-)

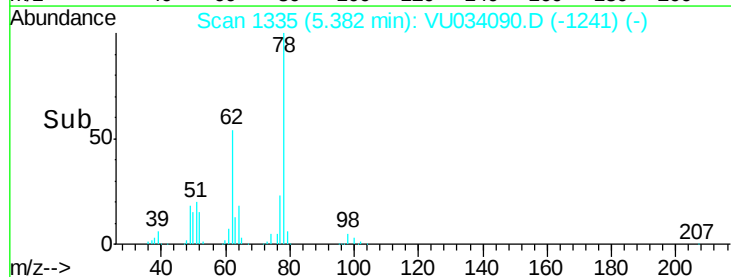
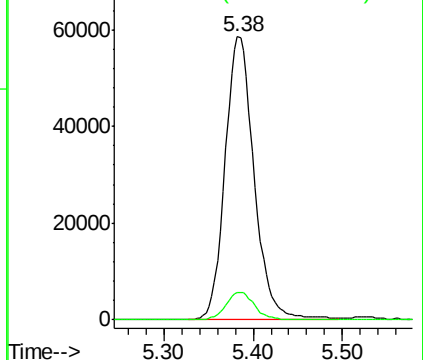


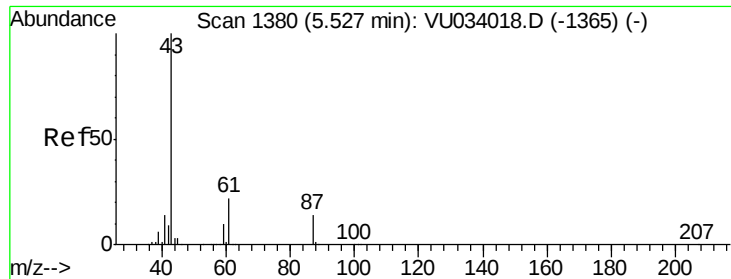
#42
1,2-Dichloroethane
Concen: 19.223 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.6	0.0	18.2	



Abundance Ion 61.90 (61.60 to 62.60): VU034018.D (-1316) (-)
Ion 97.90 (97.60 to 98.60): VU034018.D (-1316) (-)





#43

Isopropyl Acetate

Concen: 18.971 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

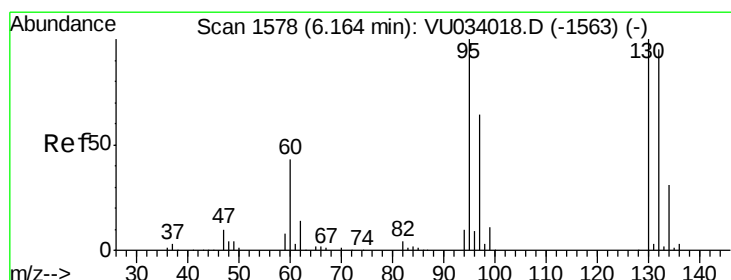
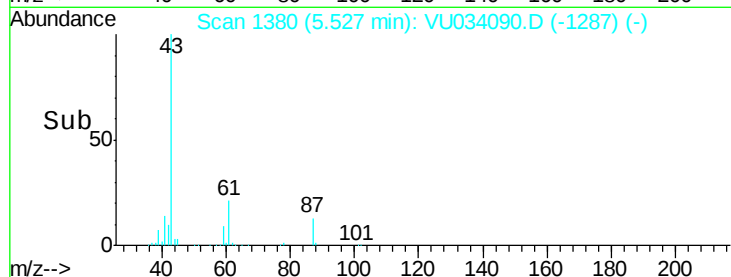
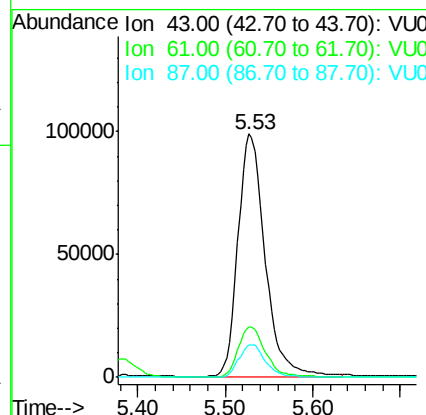
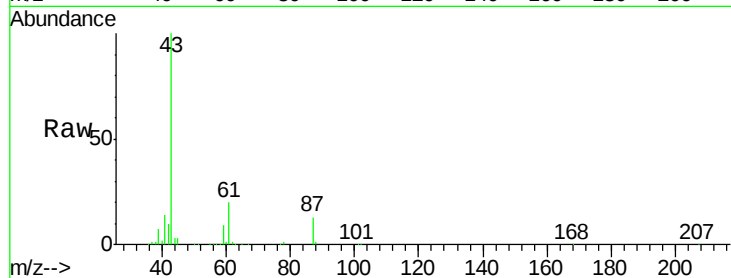
ClientSampleId :

VU0831WBS01

Tot Ion:	43	Resp:	212722
Ion	Ratio	Lower	Upper
43	100		
61	21.3	17.2	25.8
87	13.4	10.8	16.2

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#44

Trichloroethene

Concen: 19.422 ug/l

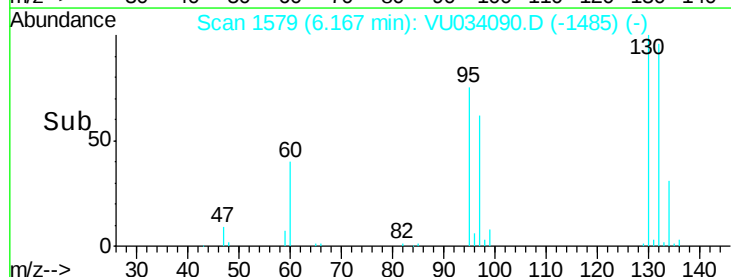
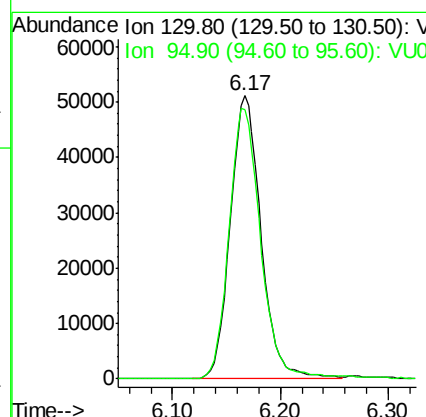
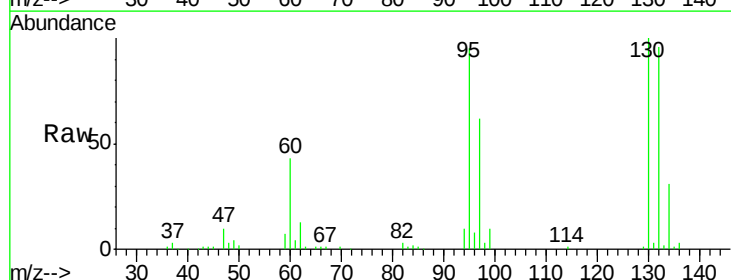
RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Tgt Ion:	130	Resp:	101563
Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	199.6





#45

1,2-Dichloropropane

Concen: 19.101 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 63 Resp: 104703

Ion Ratio Lower Upper

63 100

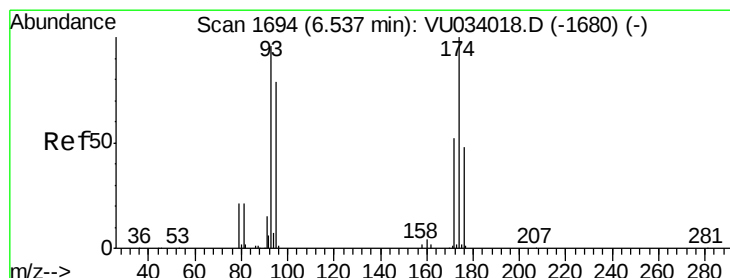
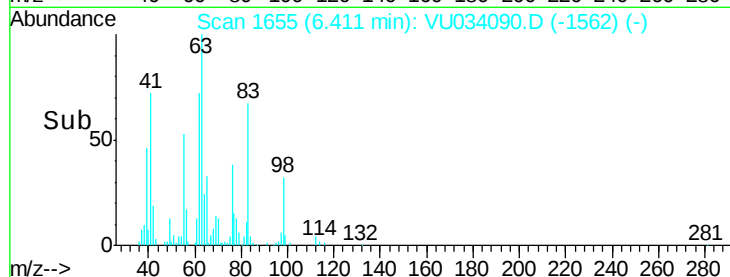
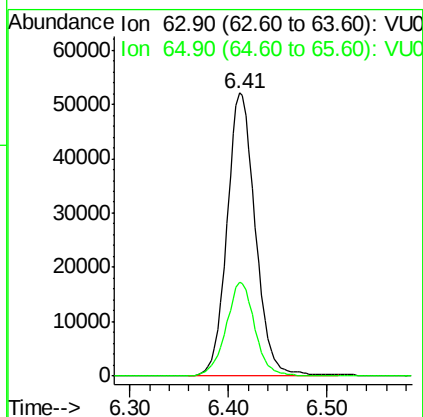
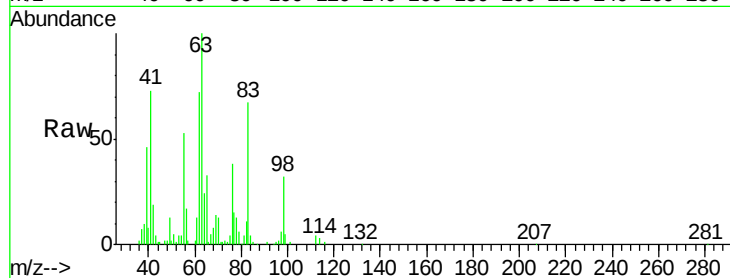
65 33.3 25.4 38.2

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#46

Dibromomethane

Concen: 19.098 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

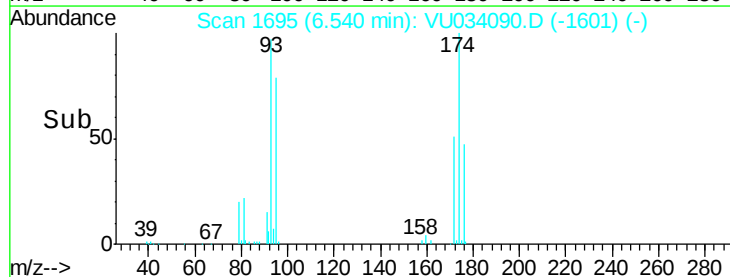
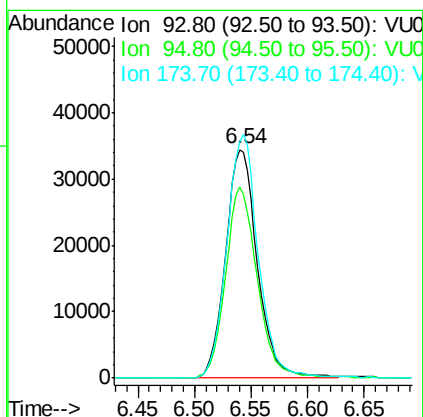
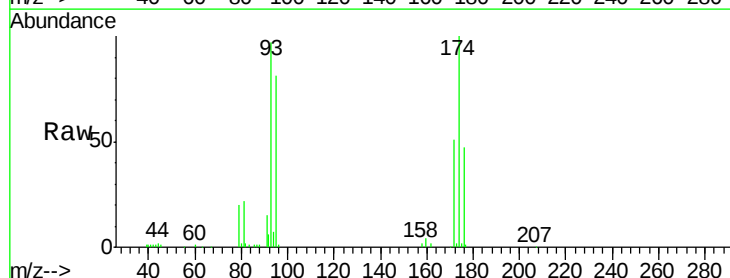
Tgt Ion: 93 Resp: 67447

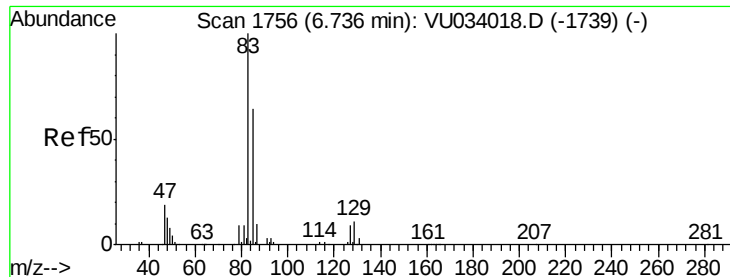
Ion Ratio Lower Upper

93 100

95 83.7 66.7 100.1

174 105.6 84.9 127.3





#47

Bromodichloromethane

Concen: 18.931 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

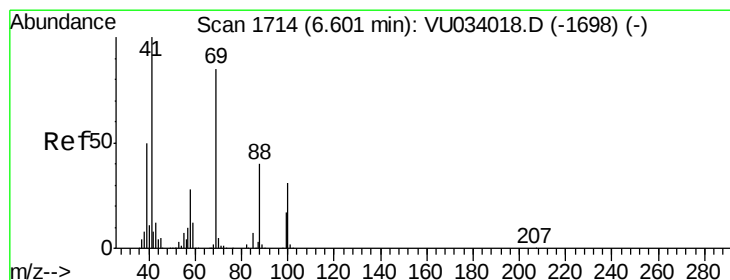
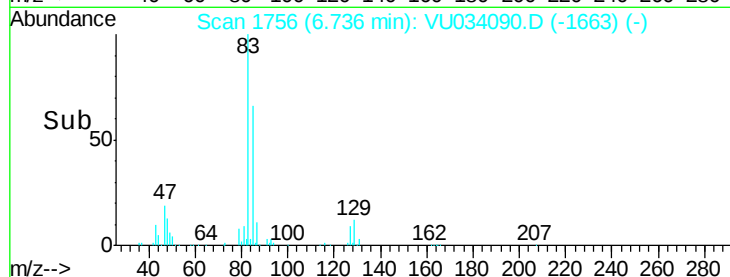
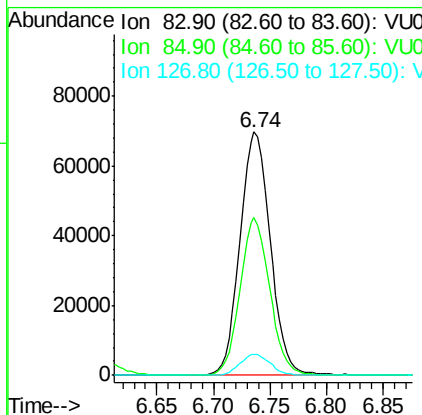
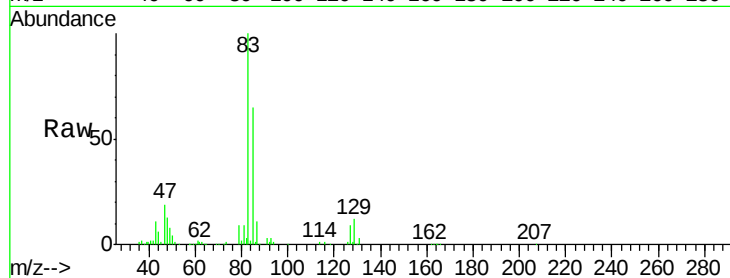
ClientSampleId :

VU0831WBS01

Tot Ion:	83	Resp:	130806
Ion Ratio	Lower	Upper	
83	100		
85	64.7	51.2	76.8
127	8.8	7.0	10.6

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#48

Methyl methacrylate

Concen: 18.266 ug/l

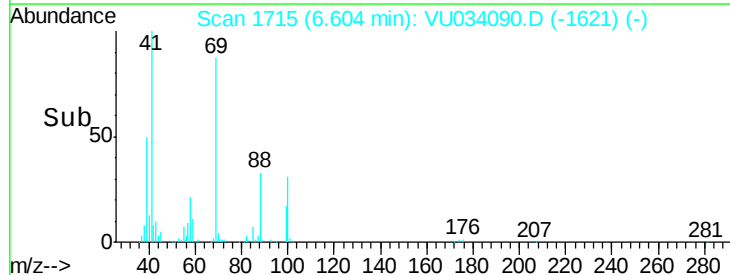
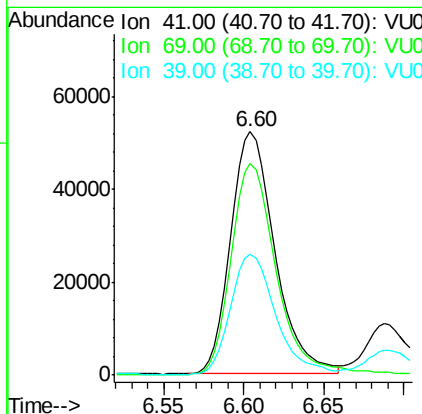
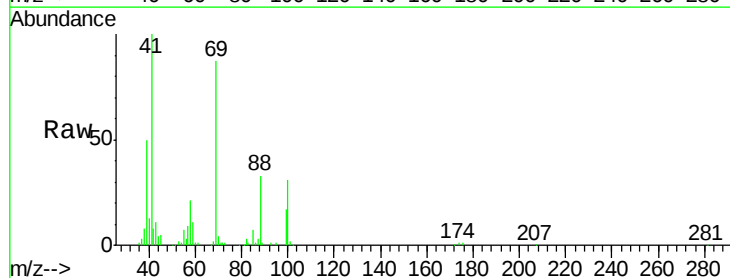
RT: 6.60 min Scan# 1715

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Tgt Ion:	41	Resp:	98833
Ion Ratio	Lower	Upper	
41	100		
69	89.6	69.5	104.3
39	50.3	40.3	60.5





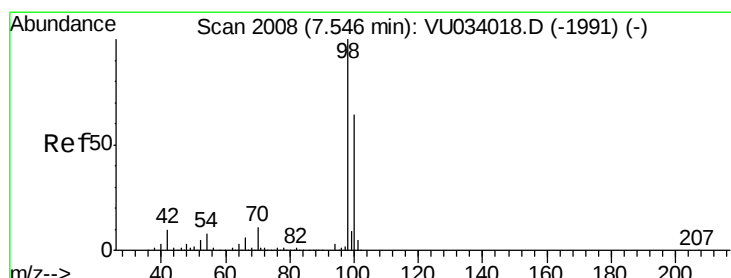
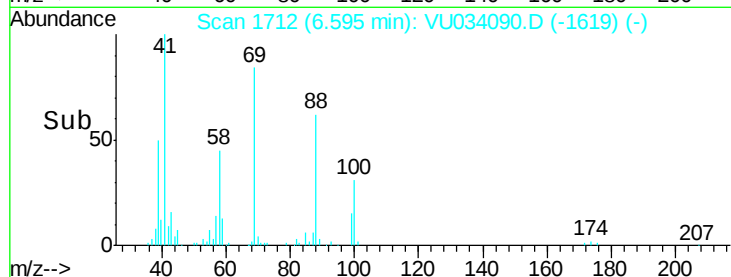
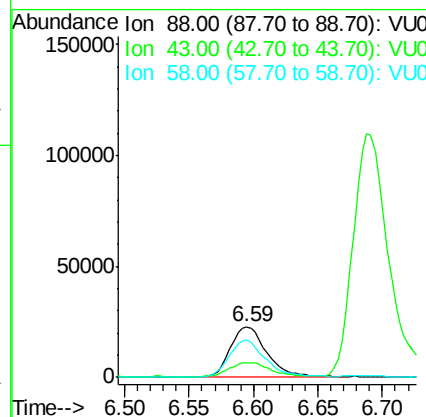
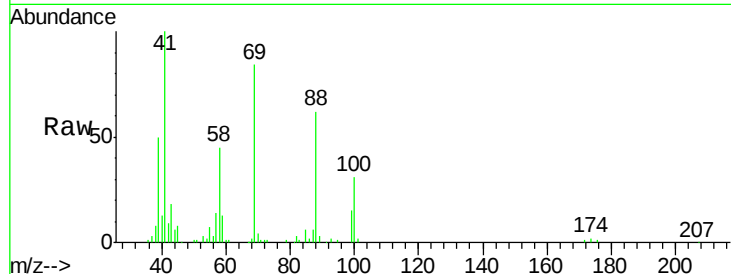
#49
1,4-Dioxane
Concen: 336.608 ug/l
RT: 6.59 min Scan# 1712
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.4	24.8	37.2
58	71.7	59.3	88.9

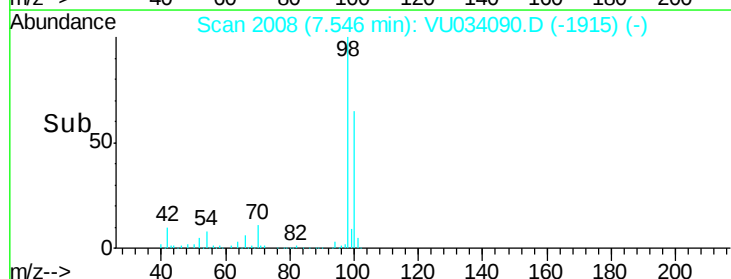
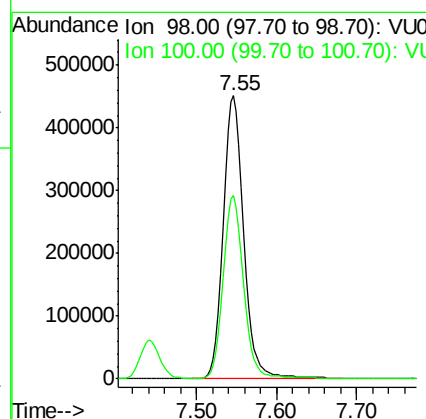
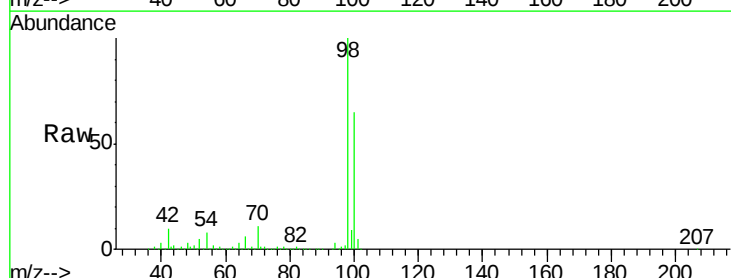
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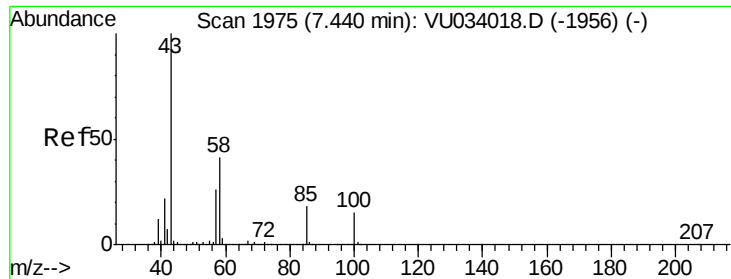
MMDadoda
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#50
Toluene-d8
Concen: 44.622 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	50.3	75.5





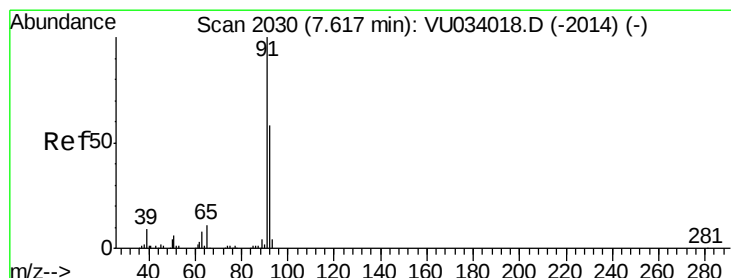
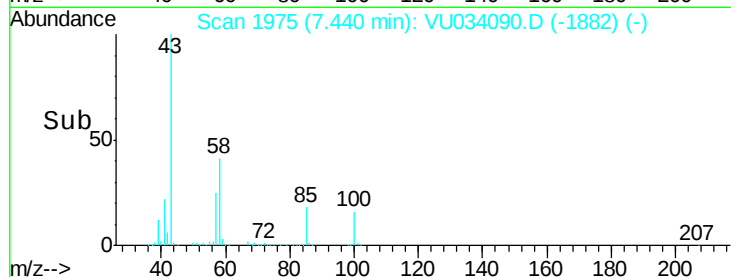
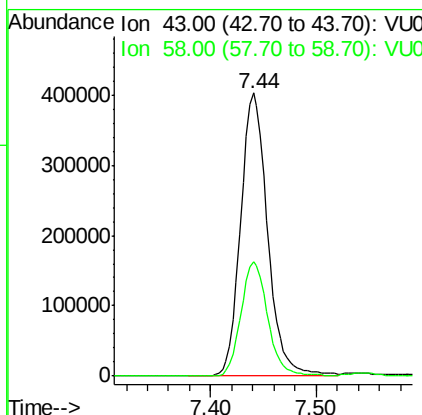
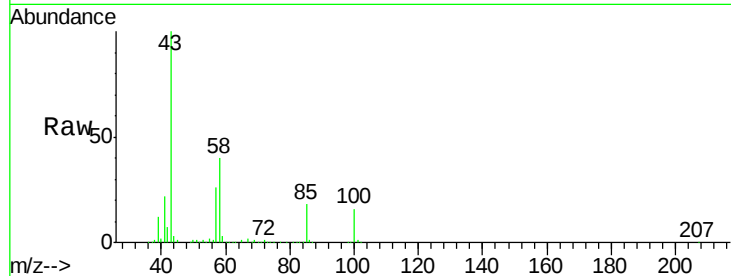
#51
4-Methyl-2-Pentanone
Concen: 92.389 ug/l
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	43	Resp	715425
Ion Ratio	100	Lower	Upper
43	100		
58	40.3	32.2	48.4

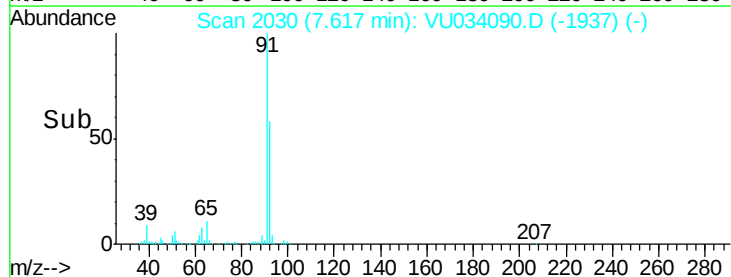
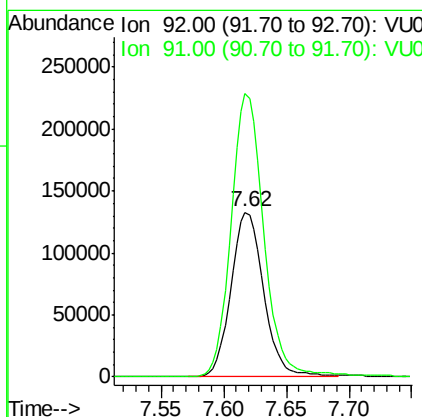
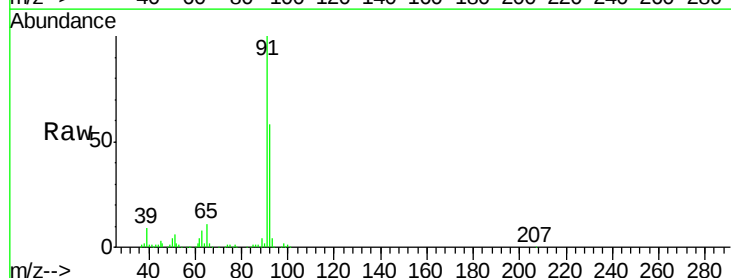
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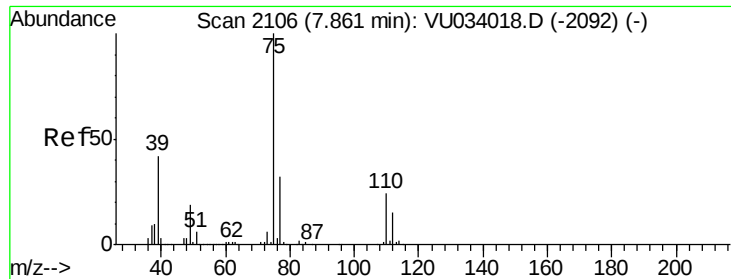
MMDadoda
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#52
Toluene
Concen: 19.618 ug/l
RT: 7.62 min Scan# 2030
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	92	Resp	240655
Ion Ratio	100	Lower	Upper
92	100		
91	172.9	138.3	207.5





#53

t-1,3-Dichloropropene

Concen: 18.480 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 75 Resp: 141680

Ion Ratio Lower Upper

75 100

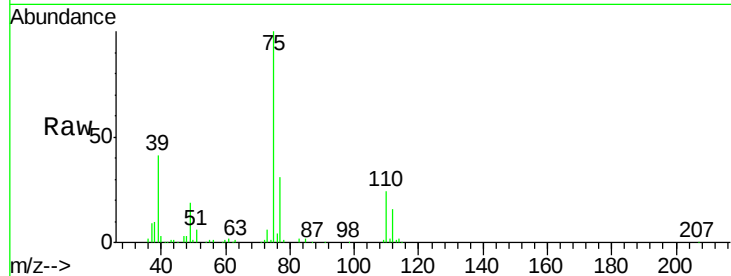
77 31.0 25.4 38.0

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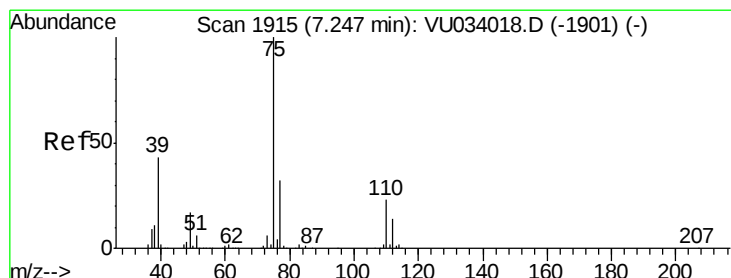
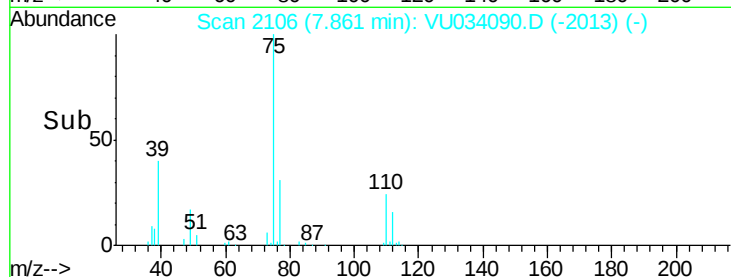
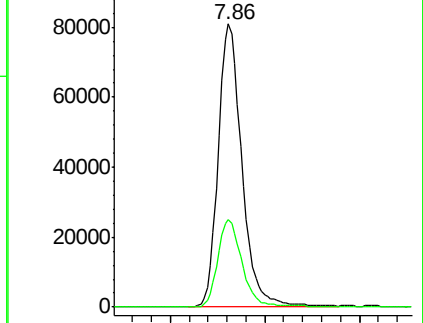
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Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 18.923 ug/l

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

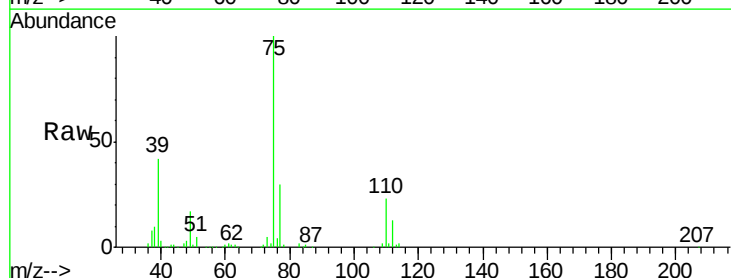
Tgt Ion: 75 Resp: 158501

Ion Ratio Lower Upper

75 100

77 30.1 25.2 37.8

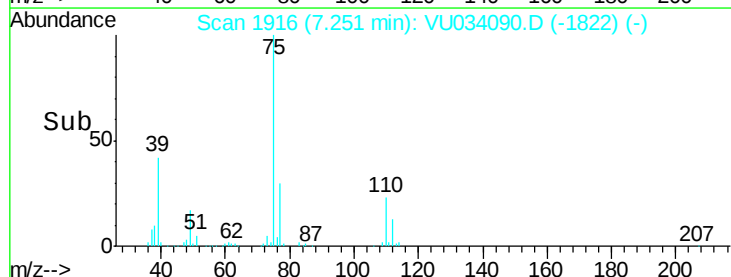
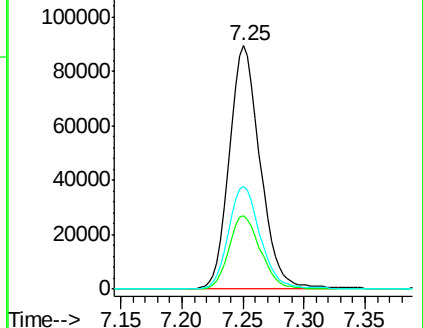
39 42.1 34.6 51.8

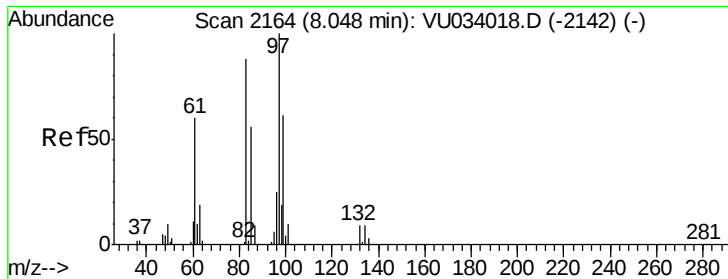


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





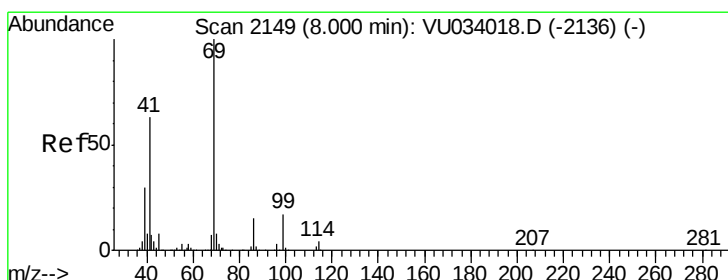
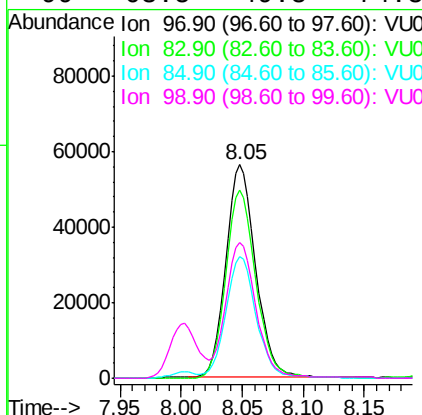
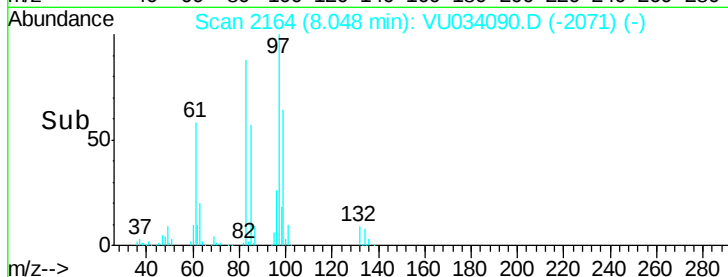
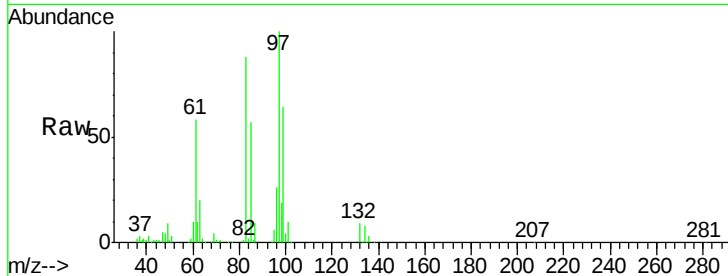
#55
 1,1,2-Trichloroethane
 Concen: 18.476 ug/l
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	97	100	95869		
83	83	88.1		70.1	105.1
85	85	57.0		45.0	67.4
99	99	63.5		49.8	74.8

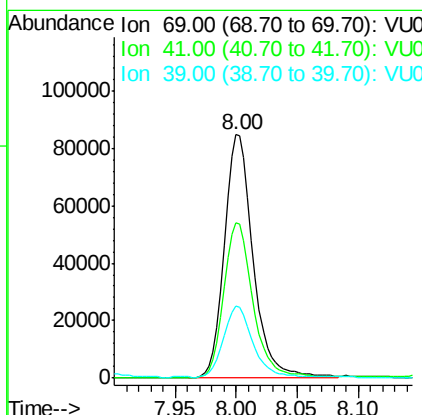
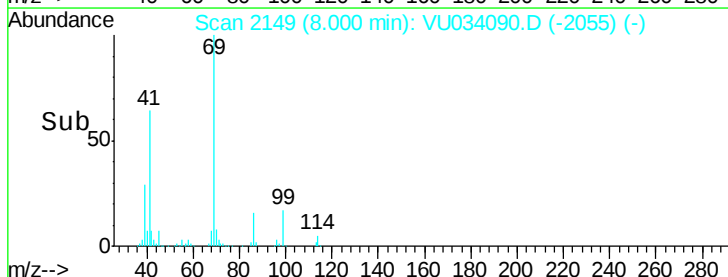
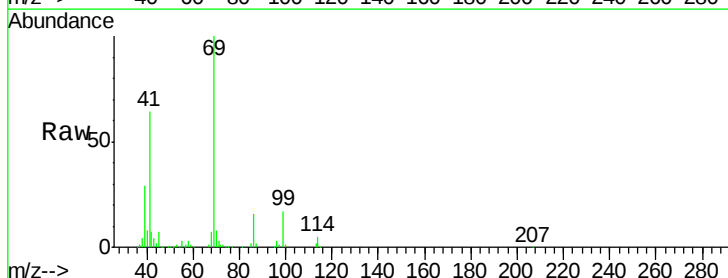
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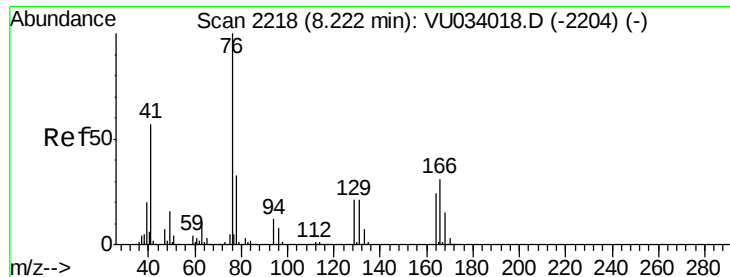
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#56
 Ethyl methacrylate
 Concen: 17.091 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	69	100	141489		
41	41	64.8		50.7	76.1
39	39	29.7		24.2	36.2





#57

1,3-Dichloropropane

Concen: 18.936 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 76 Resp: 166833

Ion Ratio Lower Upper

76 100

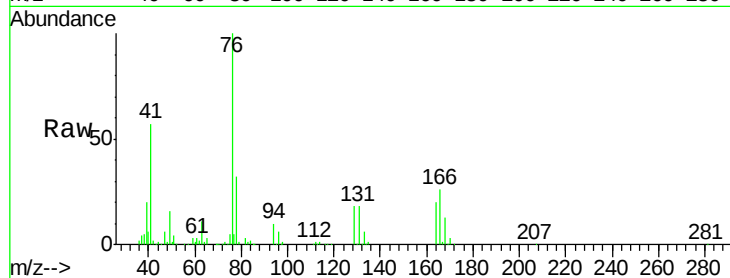
78 31.8 26.2 39.4

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU034018.D (-2204) (-)

8.22

100000

80000

60000

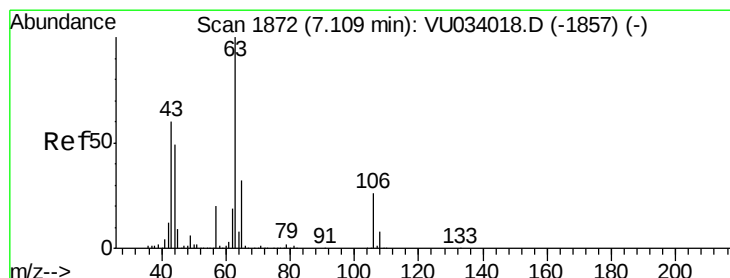
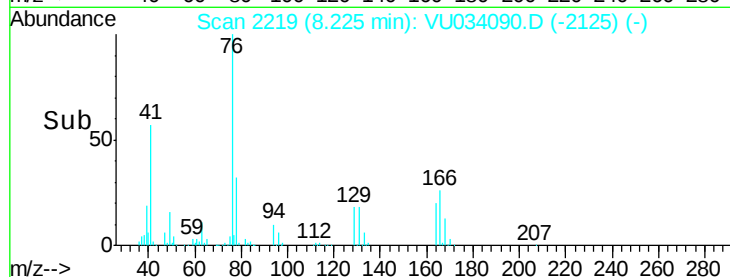
40000

20000

0

8.20 8.30

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 92.254 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034090.D

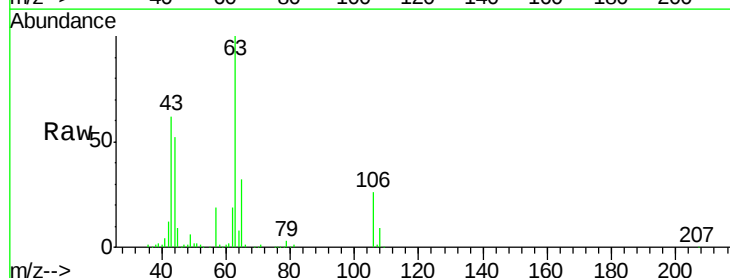
Acq: 30 Aug 2019 12:02

Tgt Ion: 63 Resp: 264823

Ion Ratio Lower Upper

63 100

106 26.1 20.7 31.1



Abundance Ion 62.90 (62.60 to 63.60): VU034018.D (-1857) (-)

Ion 105.90 (105.60 to 106.60): VU034018.D (-1857) (-)

7.11

150000

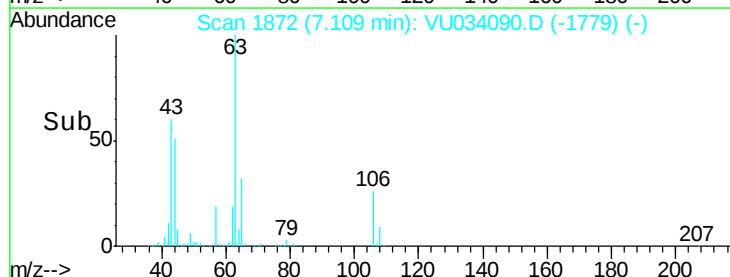
100000

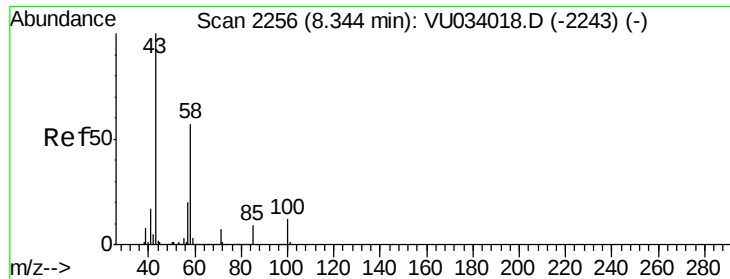
50000

0

7.00 7.10 7.20

Time-->





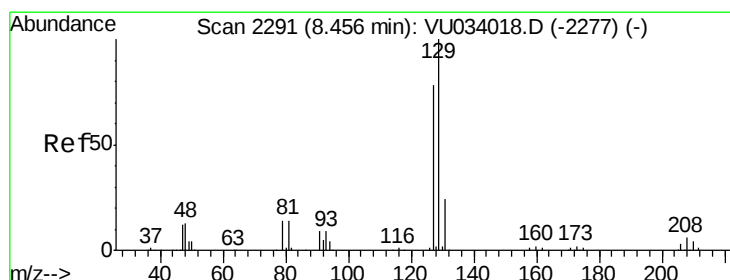
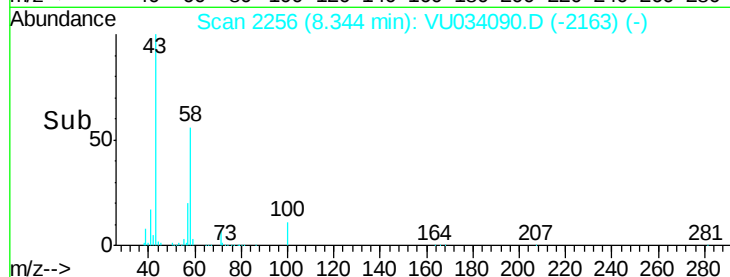
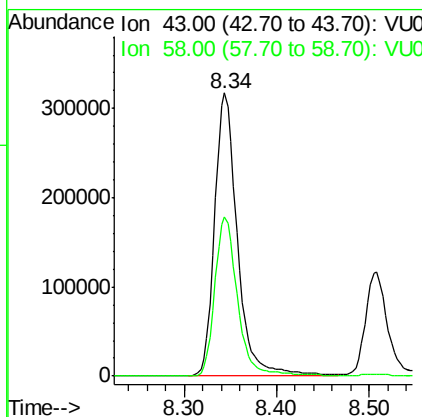
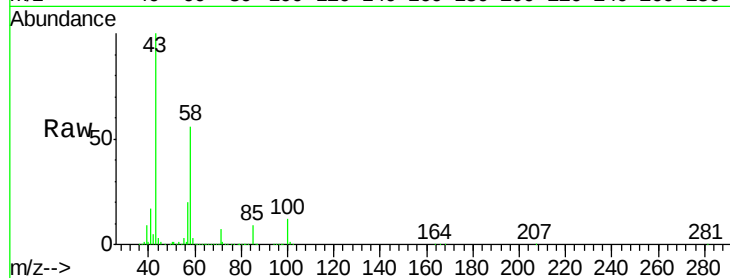
#59
2-Hexanone
Concen: 91.396 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.0	28.4	85.3

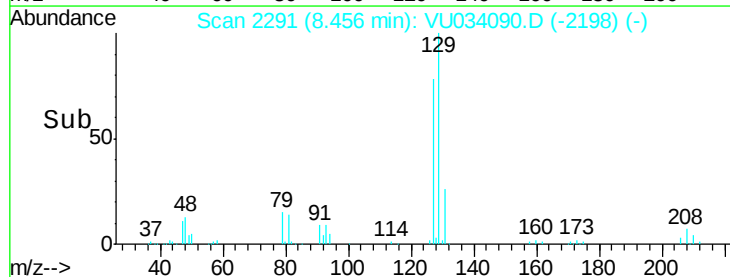
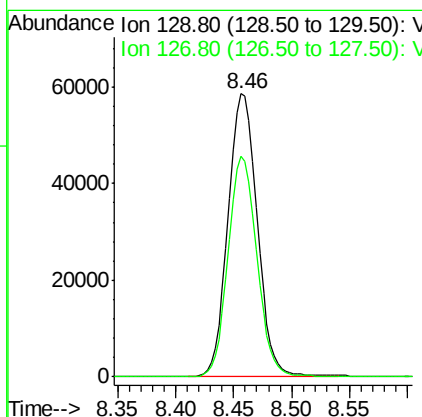
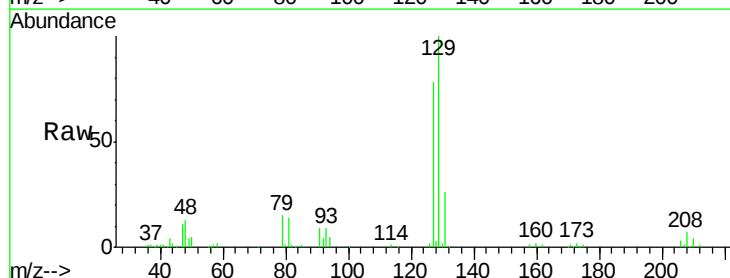
Manual Integrations
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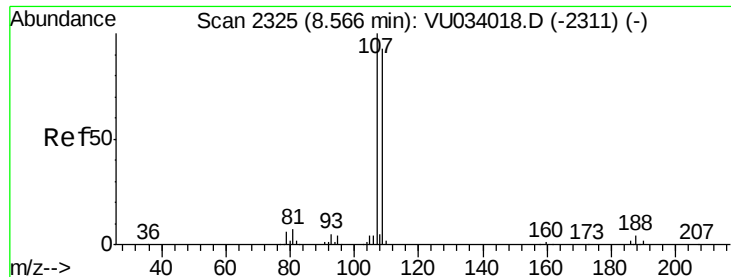
MMDadoda
8/31/2019 11:24:35 AM



#60
Dibromochloromethane
Concen: 18.389 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.5	39.0	116.9





#61

1,2-Dibromoethane

Concen: 18.609 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion:107 Resp: 101713

Ion Ratio Lower Upper

107 100

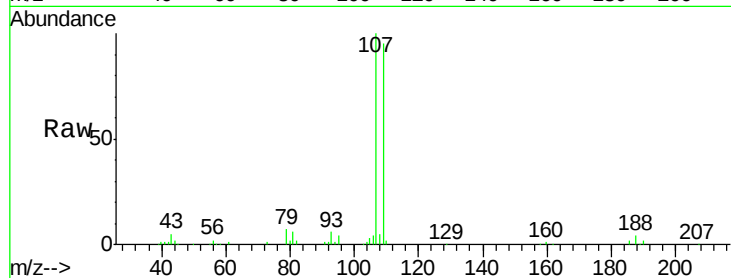
109 95.4 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

8/31/2019 11:24:35 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

60000

50000

40000

30000

20000

10000

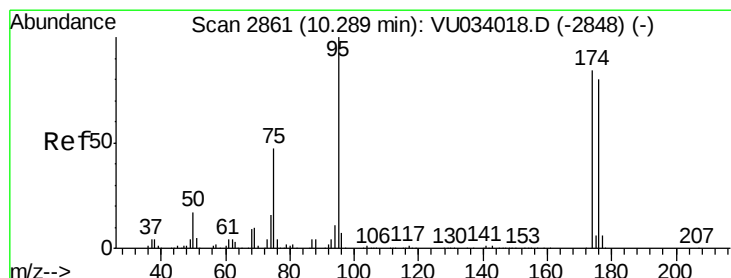
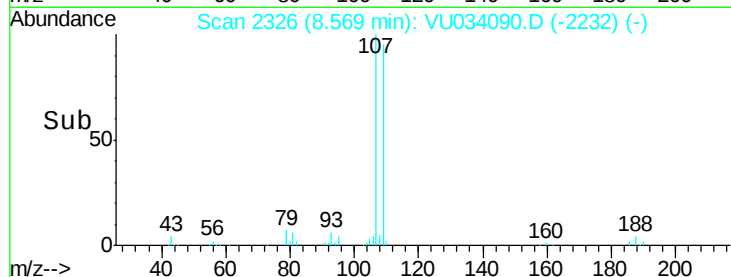
0

8.57

8.60

8.70

Time-->



#62

4-Bromofluorobenzene

Concen: 42.785 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

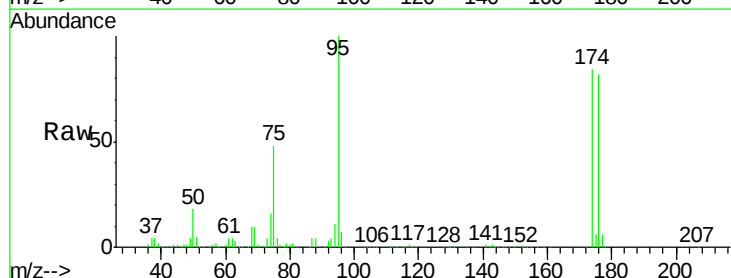
Tgt Ion: 95 Resp: 300759

Ion Ratio Lower Upper

95 100

174 84.2 0.0 168.8

176 82.1 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

150000

100000

50000

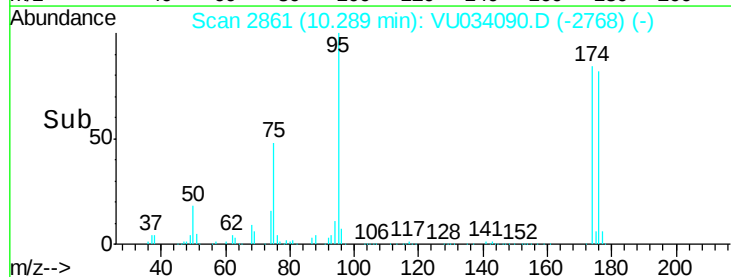
0

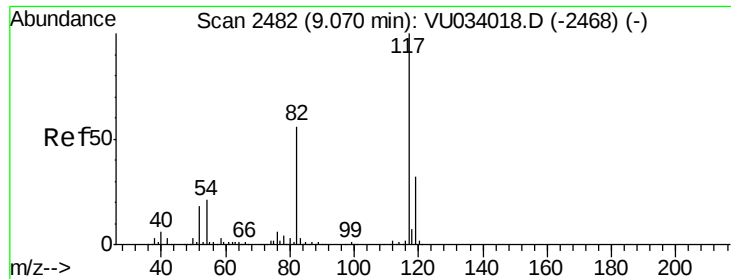
10.29

10.30

10.40

Time-->





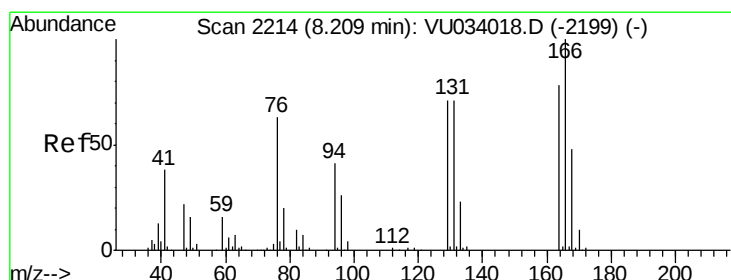
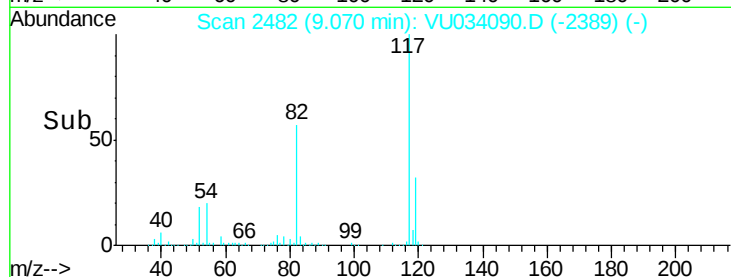
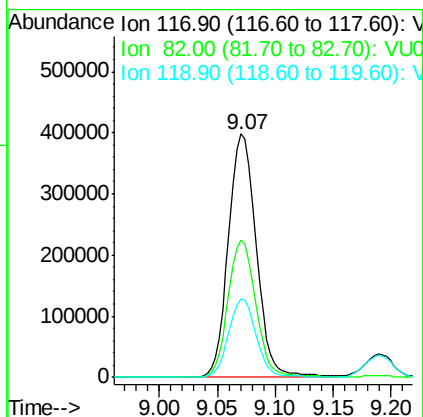
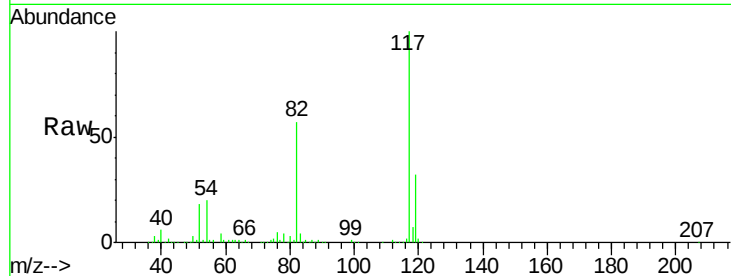
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	666952		
82	56.5	45.1	67.7	
119	32.0	25.4	38.0	

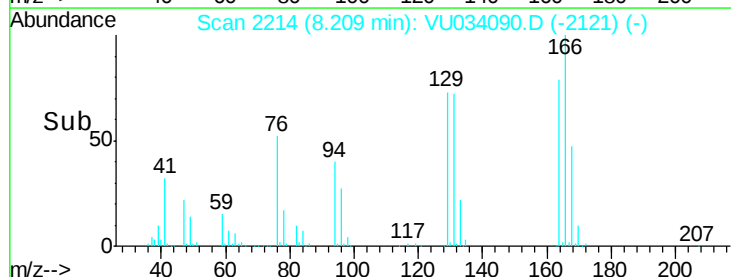
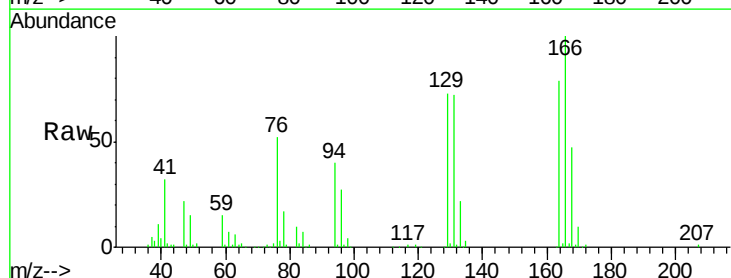
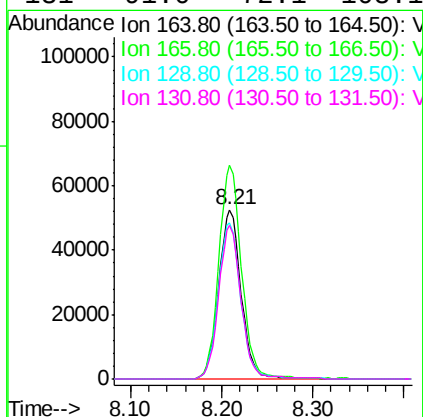
Manual Integrations
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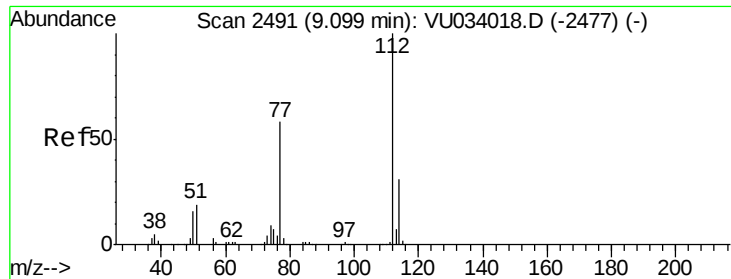
MMDadoda
8/31/2019 11:24:35 AM



#64
Tetrachloroethene
Concen: 20.138 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	90200		
166	126.4	102.2	153.2	
129	92.5	72.4	108.6	
131	91.0	72.1	108.1	





#65

Chlorobenzene

Concen: 19.188 ug/l

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion:112 Resp: 263363

Ion Ratio Lower Upper

112 100

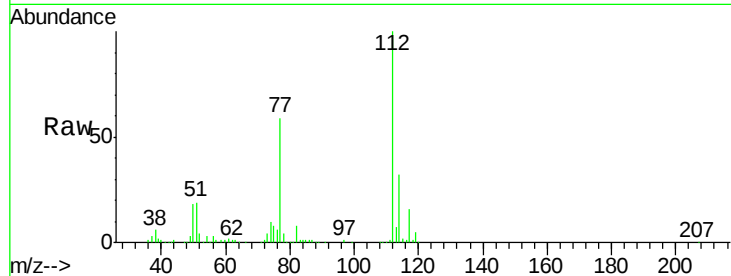
114 32.0 25.0 37.4

Manual Integrations

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

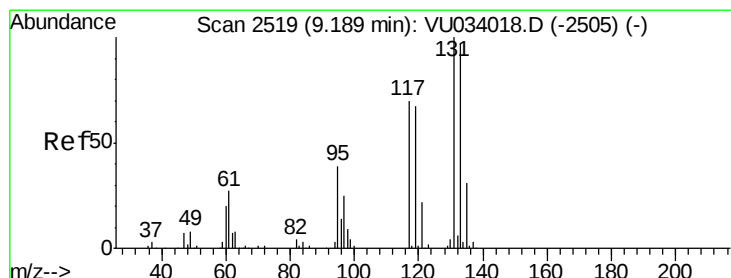
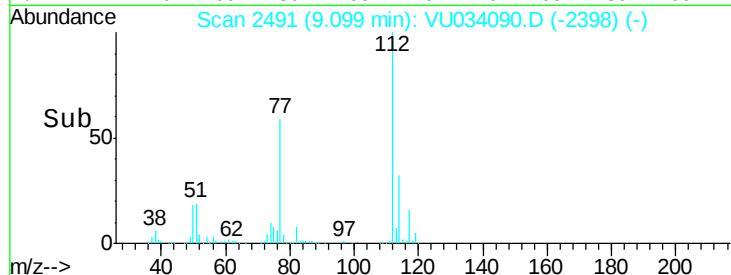
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 18.553 ug/l

RT: 9.19 min Scan# 2519

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

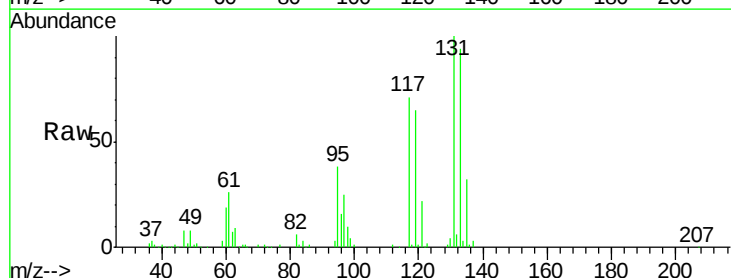
Tgt Ion:131 Resp: 92336

Ion Ratio Lower Upper

131 100

133 93.9 48.4 145.2

119 66.3 33.6 100.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

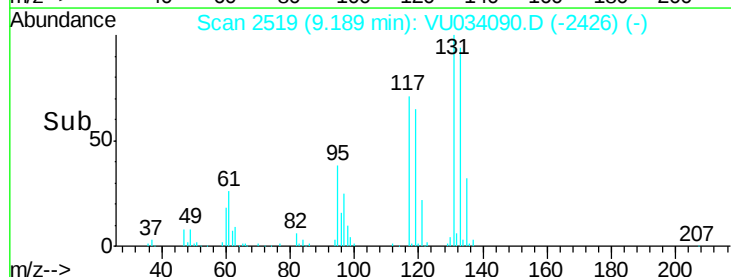
150000

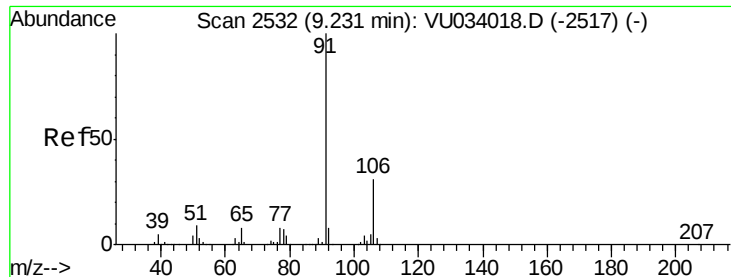
100000

50000

0

Time-->





#67

Ethyl Benzene

Concen: 19.343 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 91 Resp: 450026

Ion Ratio Lower Upper

91 100

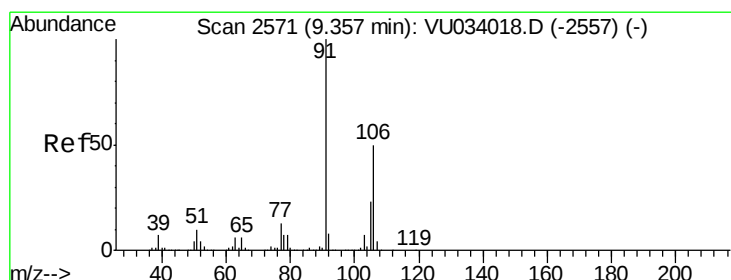
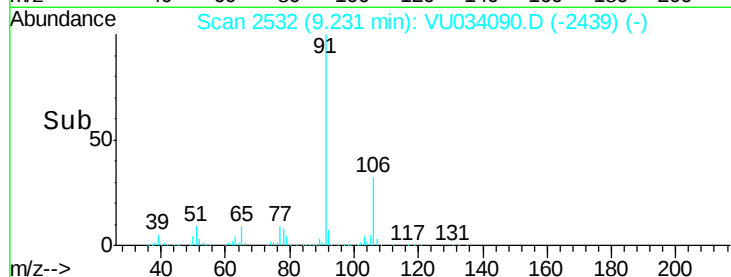
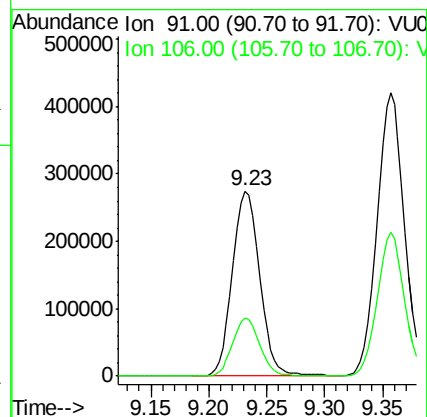
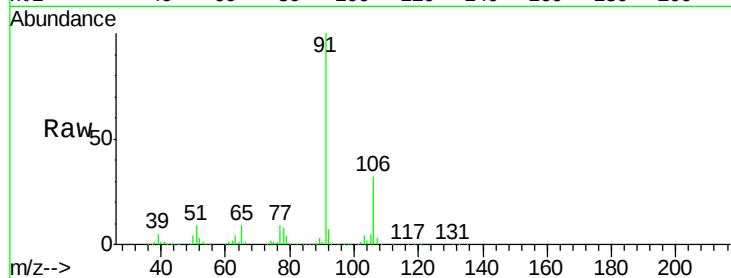
106 31.5 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

8/31/2019 11:24:35 AM



#68

m/p-Xylenes

Concen: 39.760 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034090.D

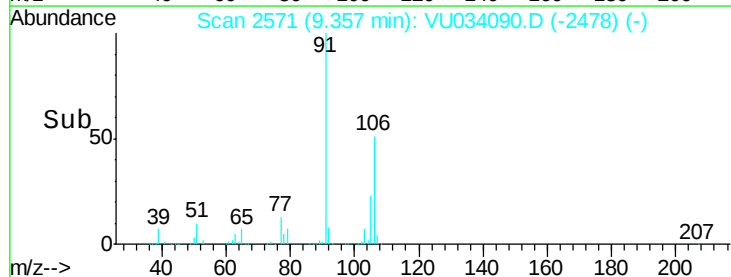
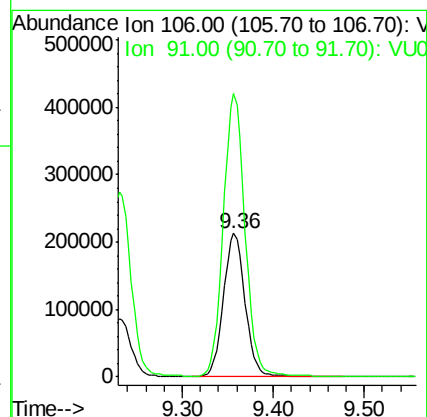
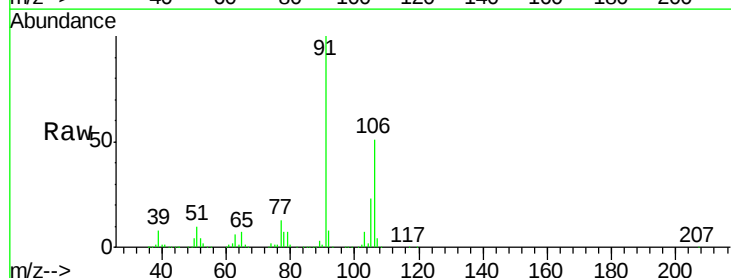
Acq: 30 Aug 2019 12:02

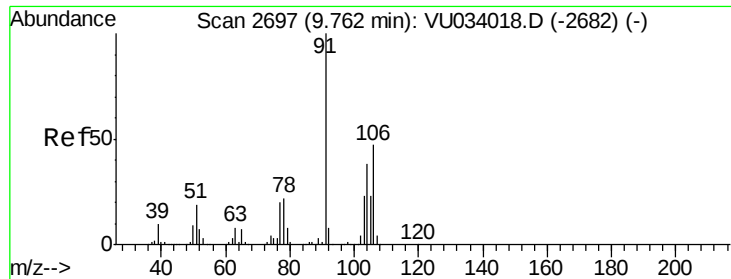
Tgt Ion: 106 Resp: 351747

Ion Ratio Lower Upper

106 100

91 198.5 161.6 242.4





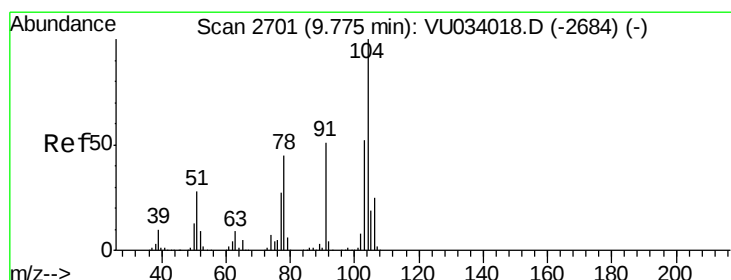
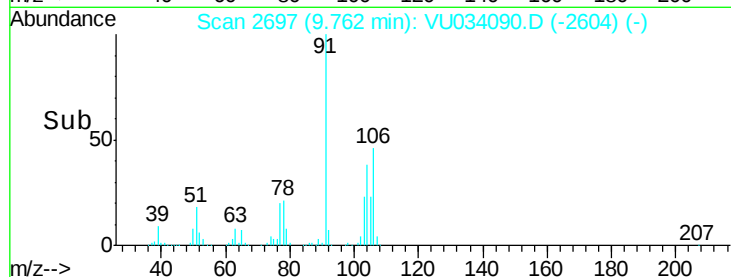
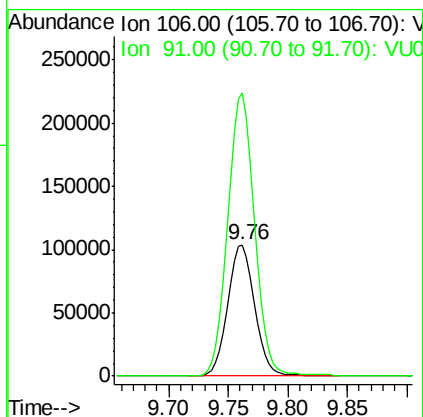
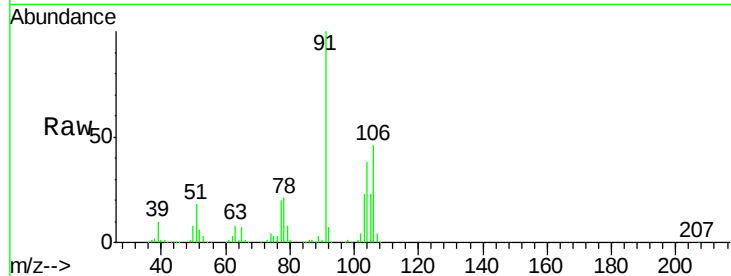
#69
o-Xylene
Concen: 19.222 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	163146		
91	91	215.3	106.0	318.0	

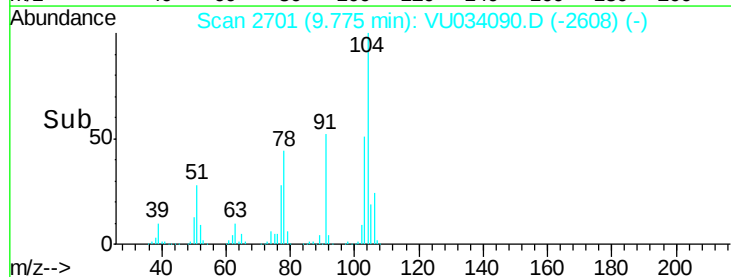
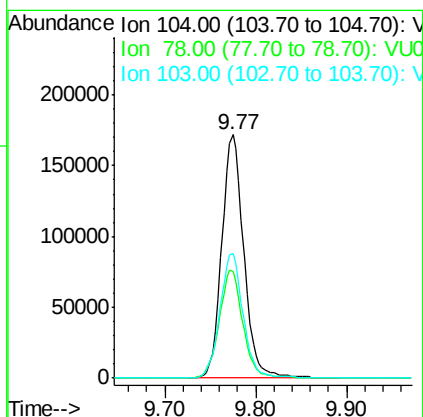
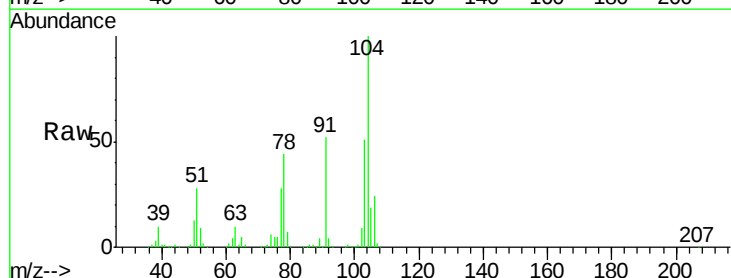
Manual Integrations
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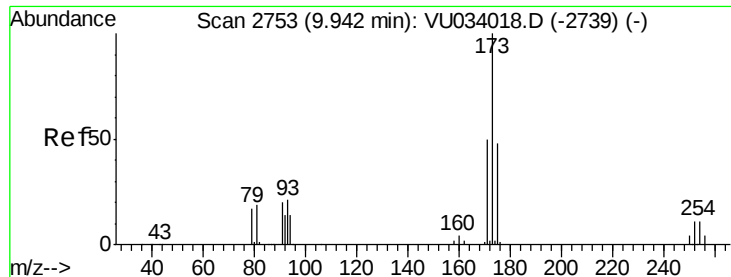
MMDadoda
8/31/2019 11:24:35 AM



#70
Styrene
Concen: 19.927 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	289995		
78	78	47.8	39.0	58.4	
103	103	53.7	44.0	66.0	





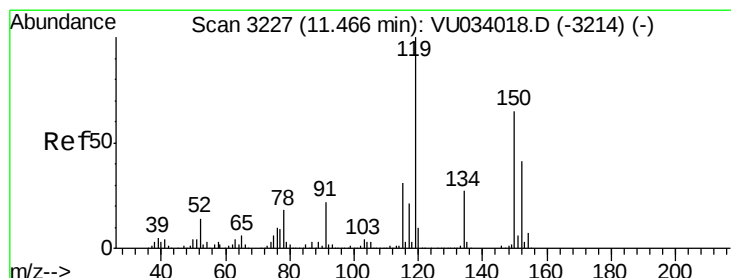
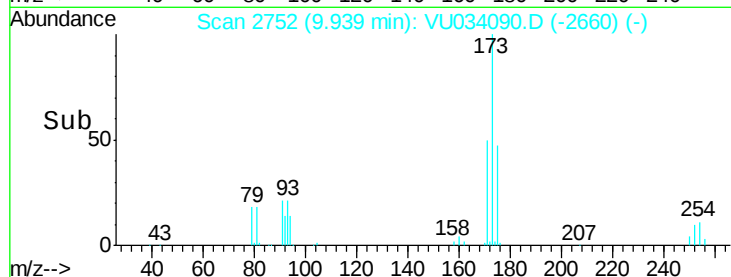
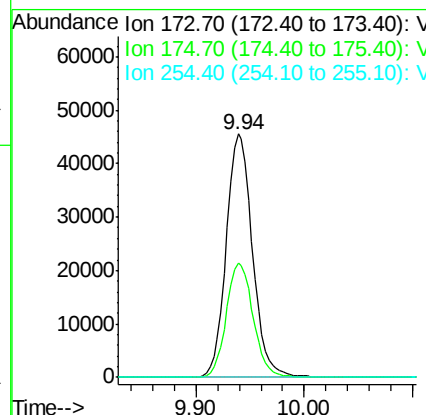
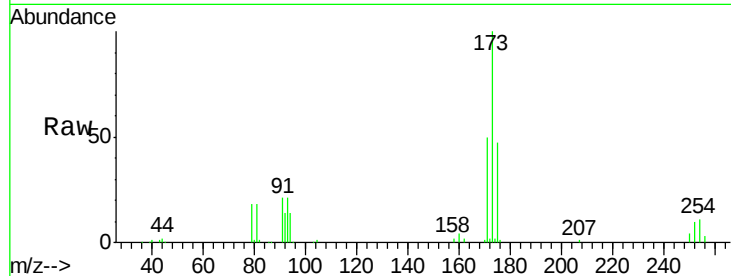
#71
Bromoform
Concen: 17.847 ug/l
RT: 9.94 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ion	Ratio	Lower	Upper
173	100			
175	48.1	24.6	73.6	
254	0.0	0.0	0.0	

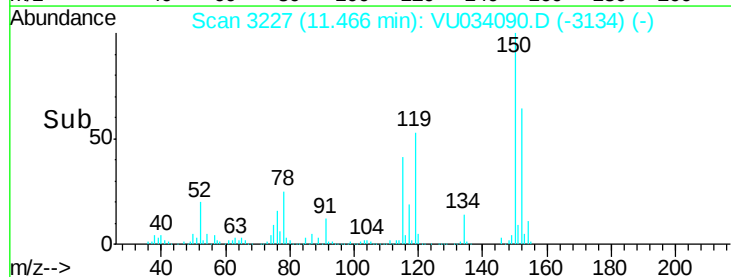
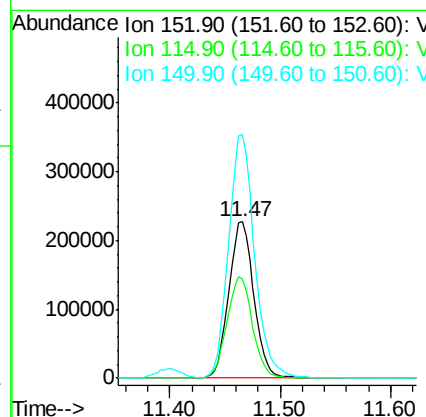
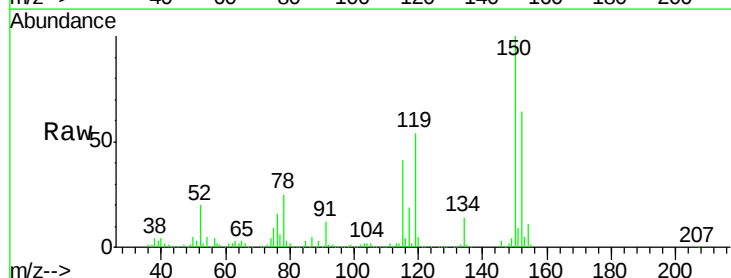
Manual Integrations
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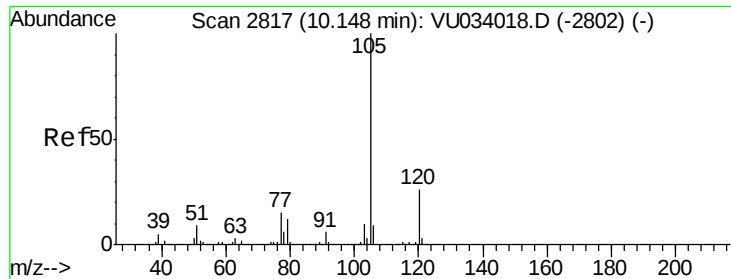
MMDadoda
8/31/2019 11:24:35 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ion	Ratio	Lower	Upper
152	100			
115	66.1	41.1	123.3	
150	161.8	0.0	348.8	





#73

Isopropylbenzene

Concen: 18.482 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion:105 Resp: 445145

Ion Ratio Lower Upper

105 100

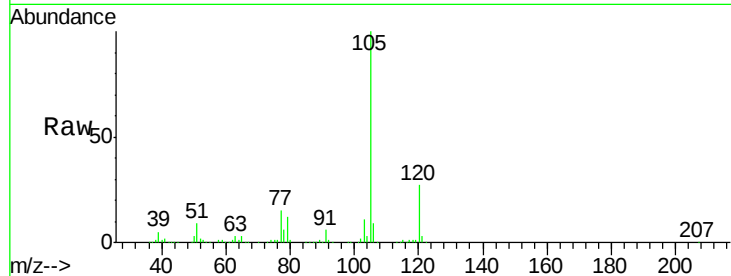
120 26.7 13.3 39.8

Manual Integrations

APPROVED

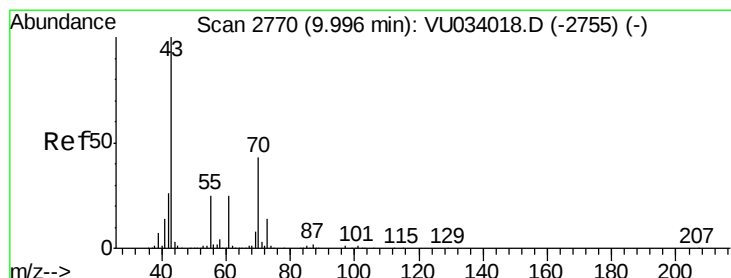
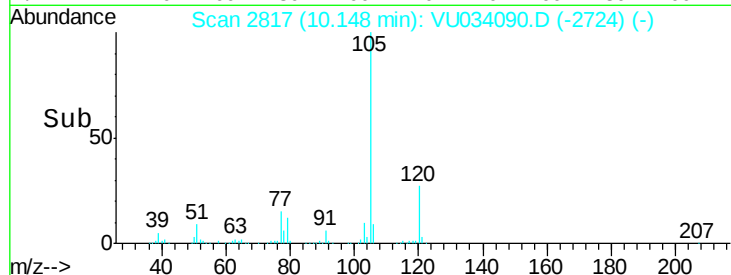
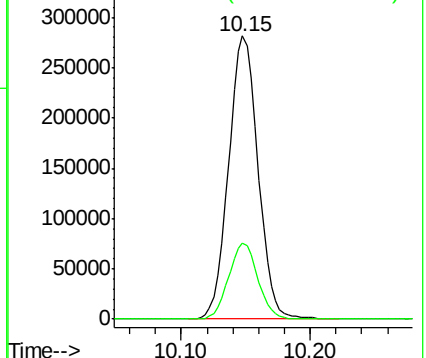
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.872 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Tgt Ion: 43 Resp: 181039

Ion Ratio Lower Upper

43 100

70 44.1 35.2 52.8

55 26.5 20.5 30.7

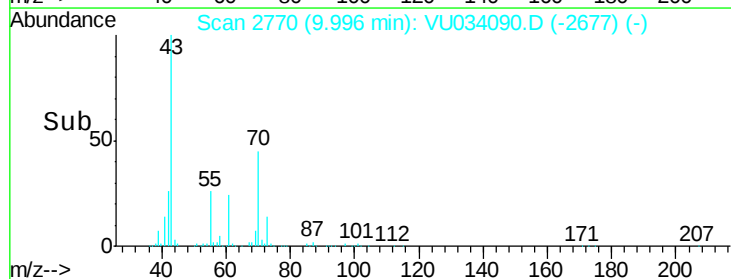
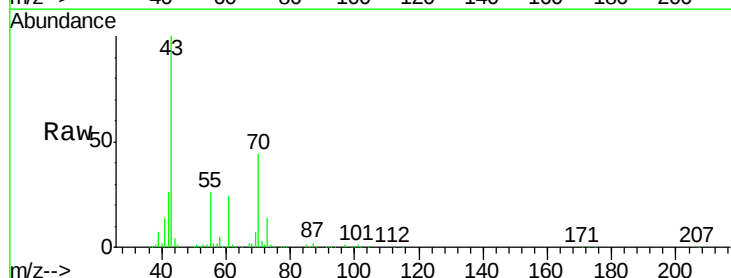
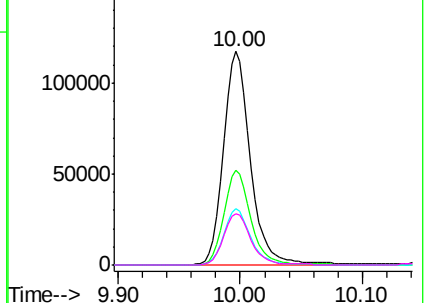
61 24.4 20.0 30.0

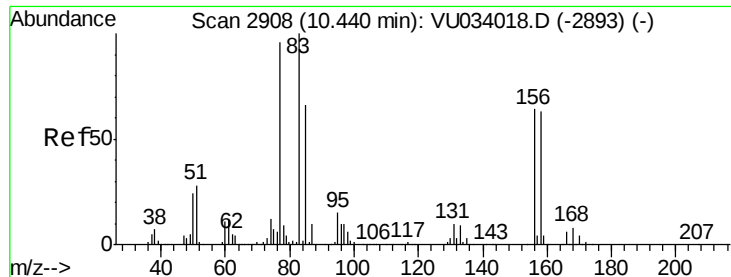
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 17.631 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 83 Resp: 162530
Ion Ratio Lower Upper

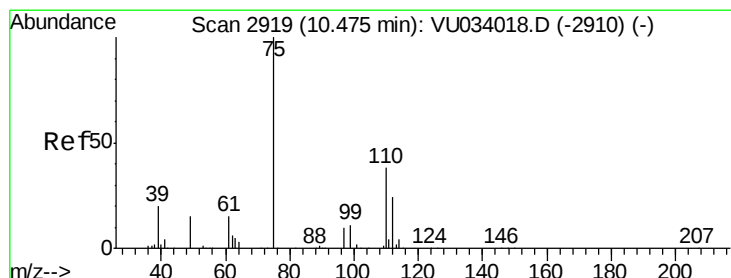
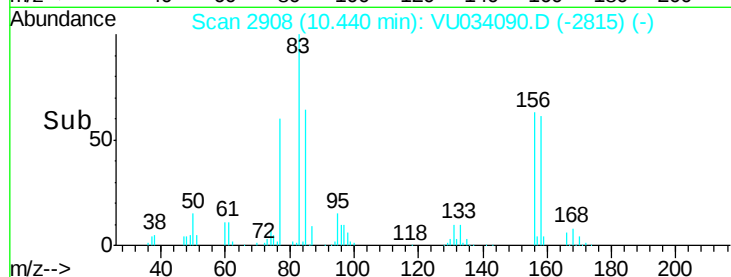
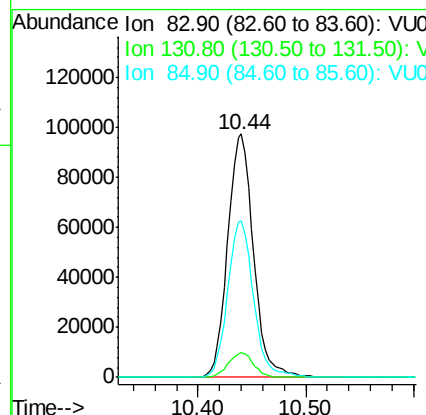
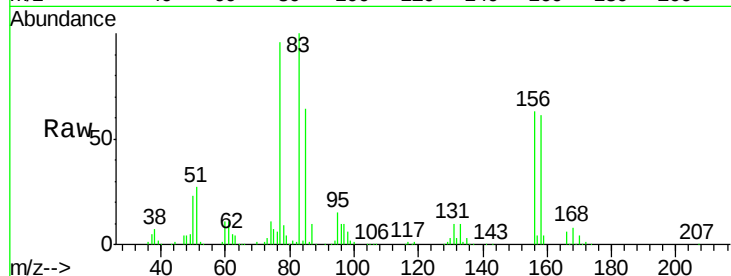
83 100

131 10.0 5.0 14.9

85 64.3 32.2 96.6

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#76

1,2,3-Trichloropropane

Concen: 17.213 ug/l m

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

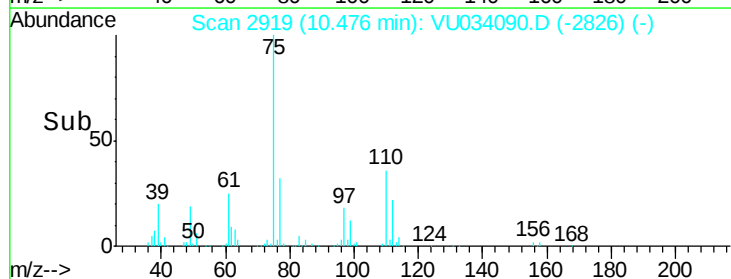
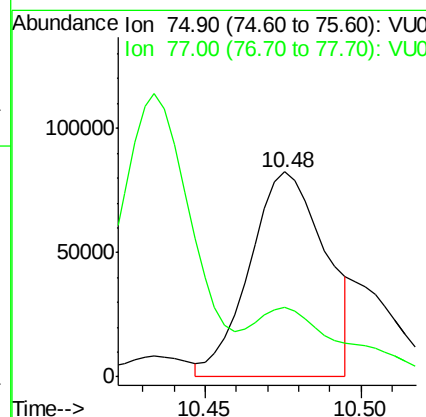
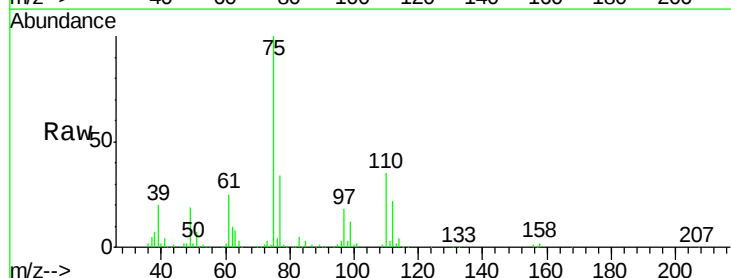
Lab File: VU034090.D

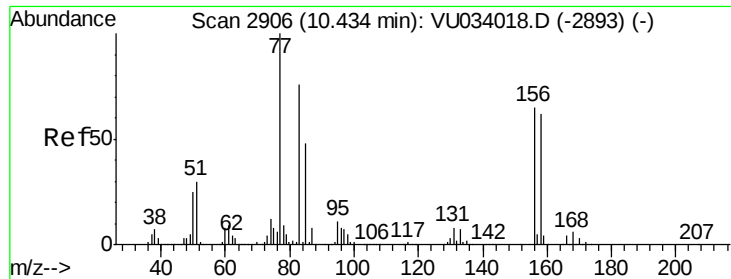
Acq: 30 Aug 2019 12:02

Tgt Ion: 75 Resp: 139105
Ion Ratio Lower Upper

75 100

77 39.9 20.1 60.2





#77

Bromobenzene

Concen: 18.303 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion:156 Resp: 118580

Ion Ratio Lower Upper

156 100

77 155.4 76.8 230.5

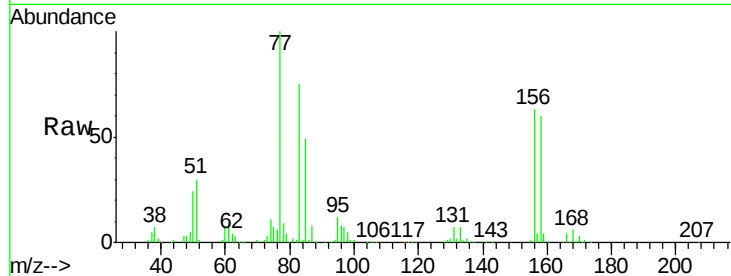
158 97.1 48.4 145.0

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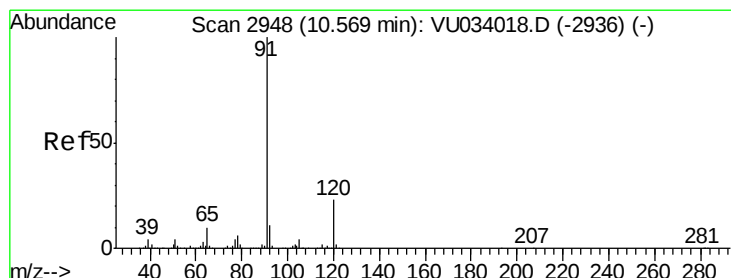
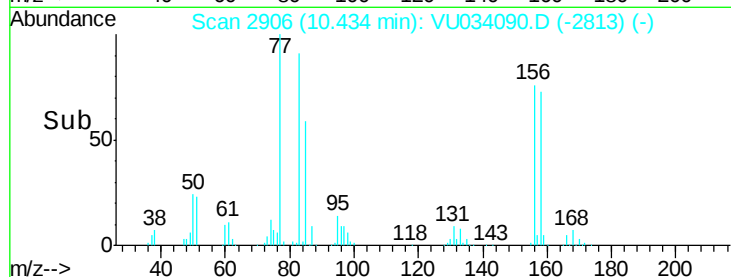
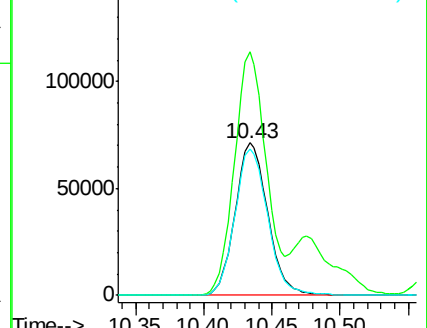
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.860 ug/l

RT: 10.57 min Scan# 2948

Delta R.T. 0.00 min

Lab File: VU034090.D

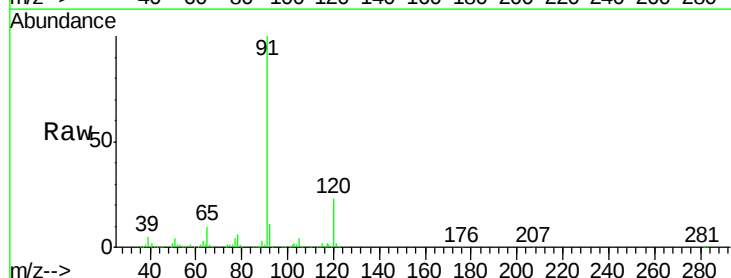
Acq: 30 Aug 2019 12:02

Tgt Ion: 91 Resp: 529002

Ion Ratio Lower Upper

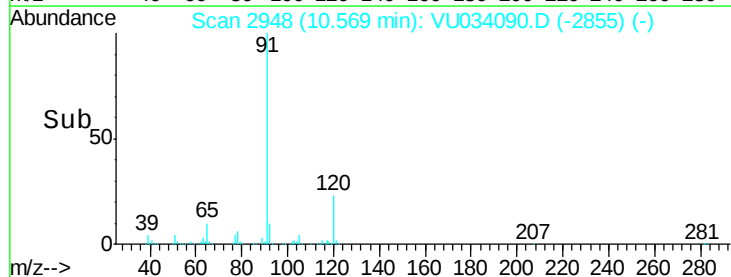
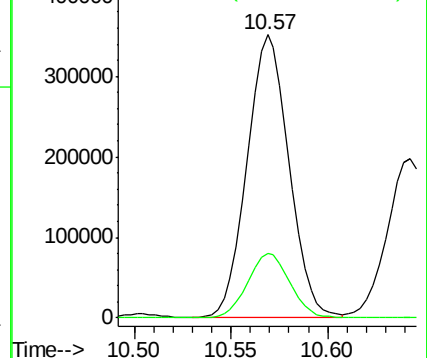
91 100

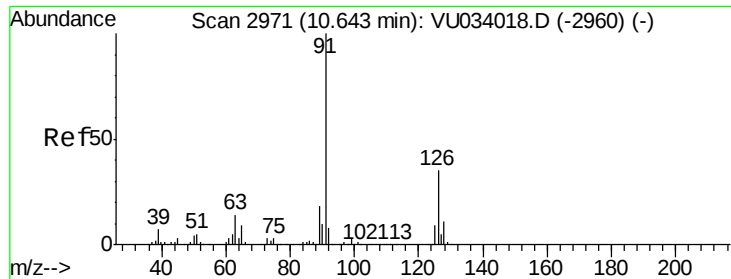
120 23.1 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.759 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion: 91 Resp: 315596

Ion Ratio Lower Upper

91 100

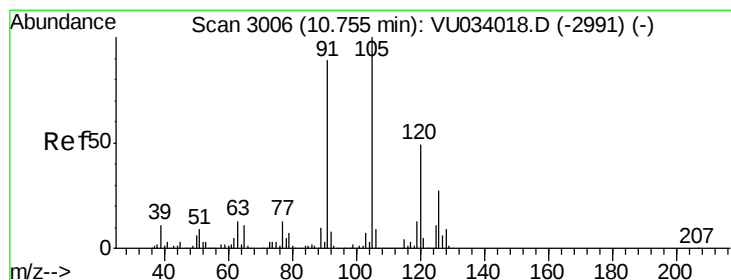
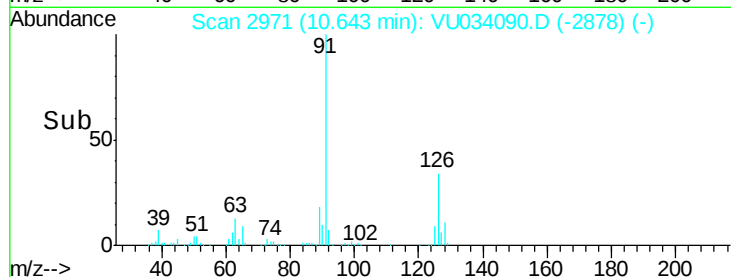
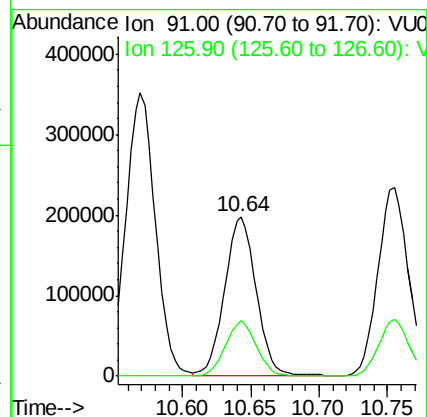
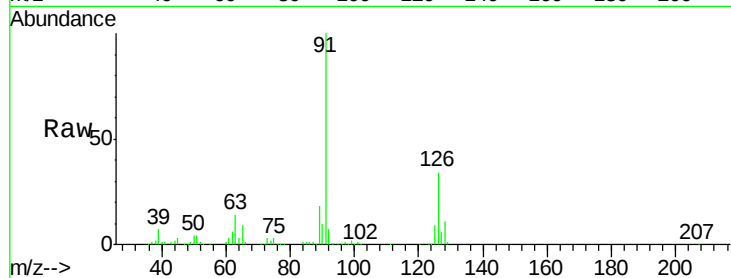
126 34.5 17.1 51.2

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#80

1,3,5-Trimethylbenzene

Concen: 19.064 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU034090.D

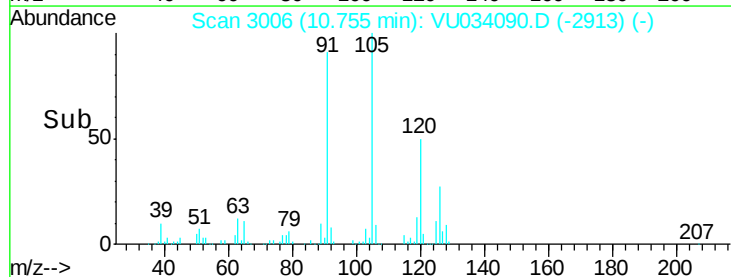
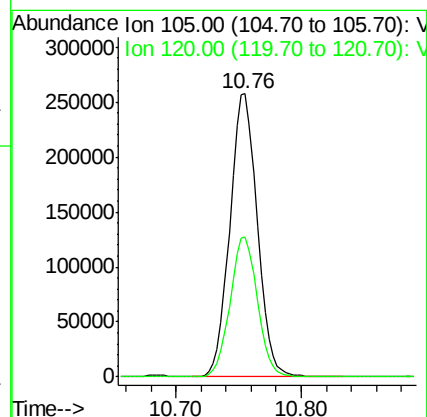
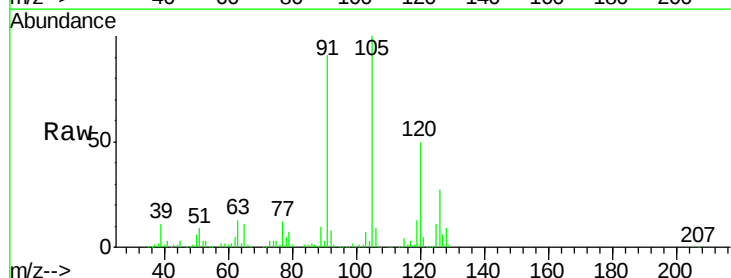
Acq: 30 Aug 2019 12:02

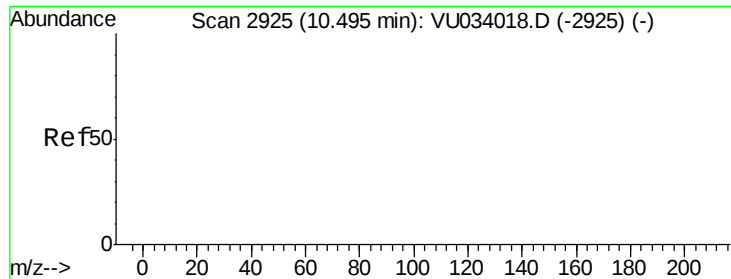
Tgt Ion: 105 Resp: 389153

Ion Ratio Lower Upper

105 100

120 49.5 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 19.693 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VU034090.D

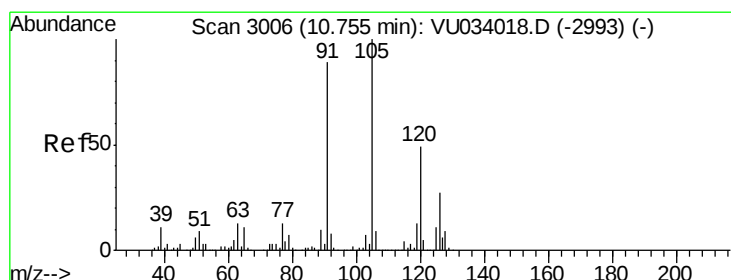
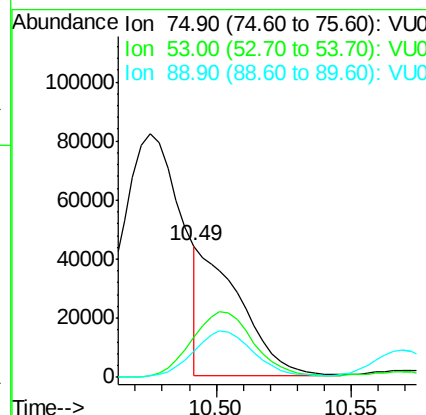
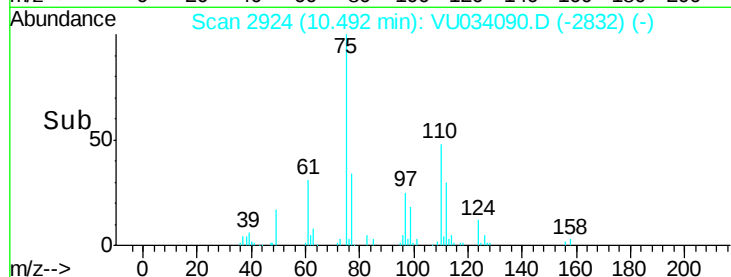
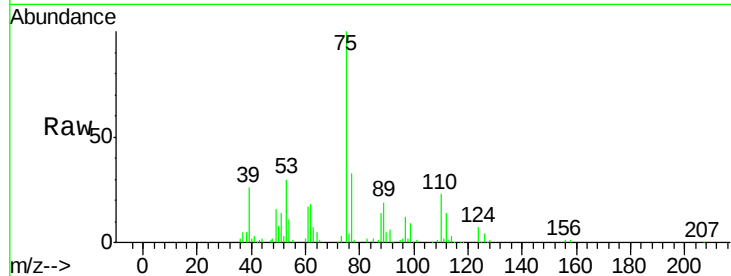
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

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

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#82

4-Chlorotoluene

Concen: 18.885 ug/l

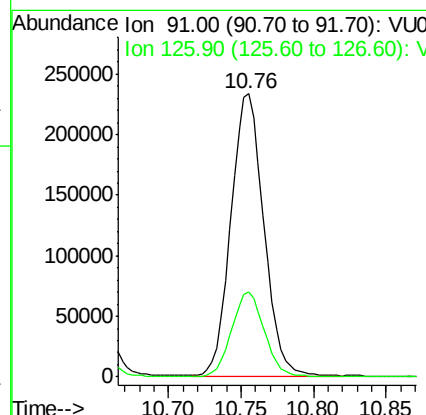
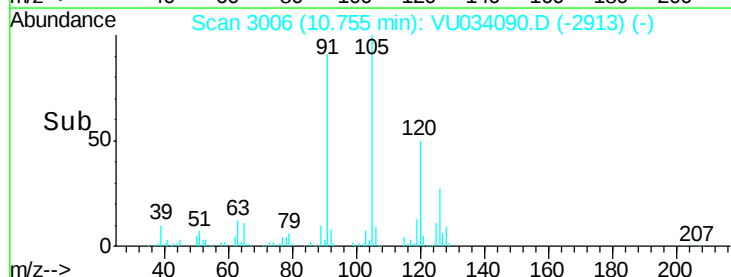
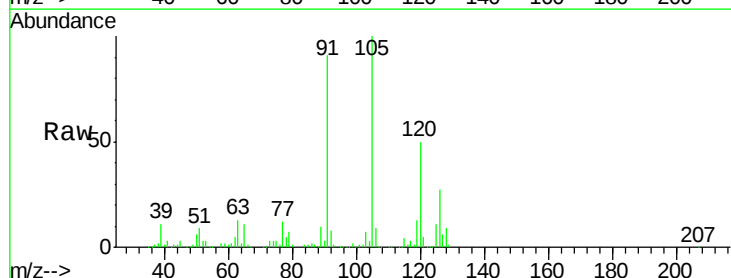
RT: 10.76 min Scan# 3006

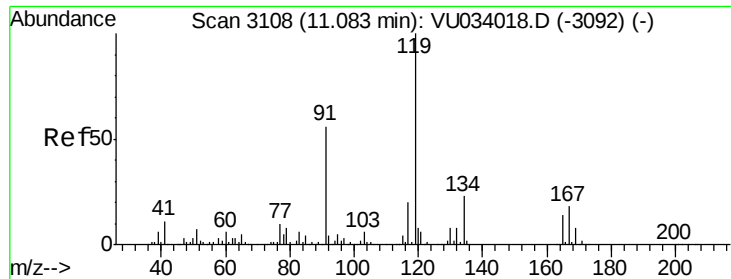
Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.9	15.0	45.1





#83

tert-Butylbenzene

Concen: 18.013 ug/l

RT: 11.08 min Scan# 3107

Delta R.T. -0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

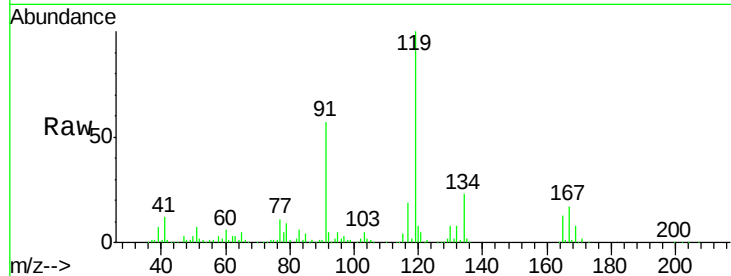
ClientSampleId :

VU0831WBS01

Tot Ion:	119	Resp:	361976
Ion Ratio	Lower	Upper	
119	100		
91	56.5	27.9	83.6
134	23.0	11.4	34.2

Manual Integrations
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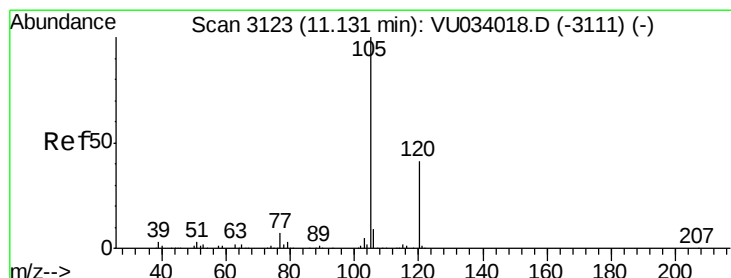
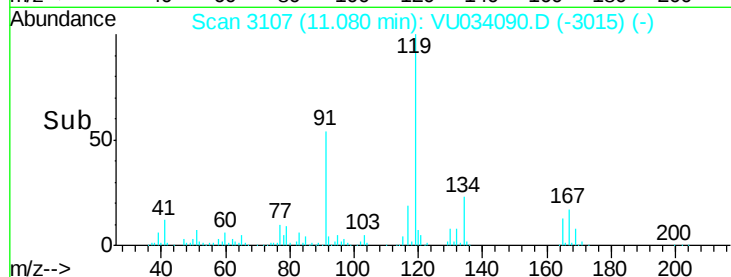
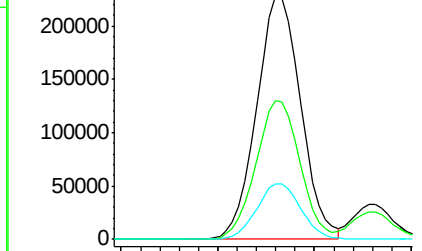
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.395 ug/l

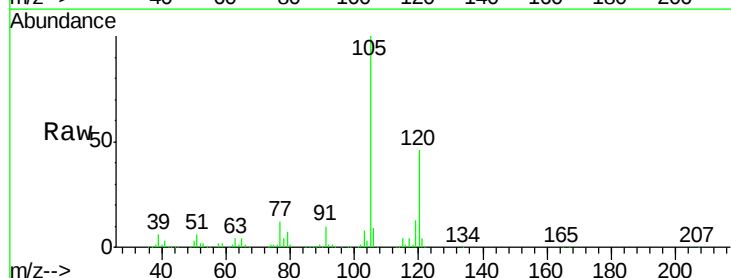
RT: 11.13 min Scan# 3123

Delta R.T. 0.00 min

Lab File: VU034090.D

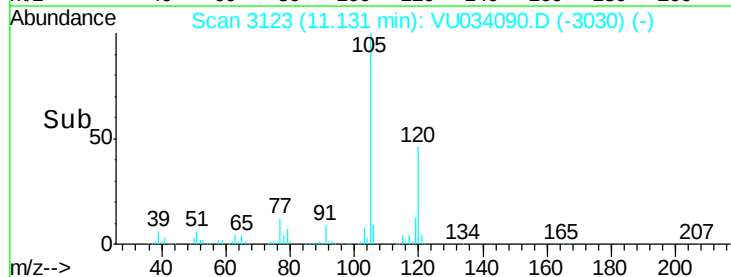
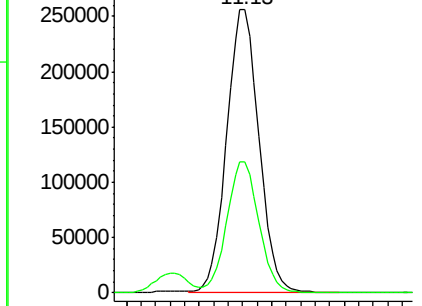
Acq: 30 Aug 2019 12:02

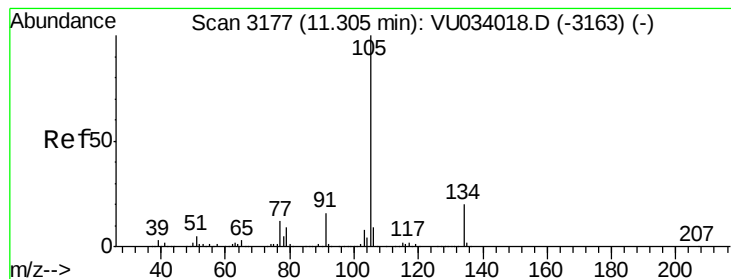
Tgt Ion:	105	Resp:	393137
Ion Ratio	Lower	Upper	
105	100		
120	46.1	22.6	67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 18.506 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VU0831WBS01

Tot Ion:105 Resp: 445714

Ion Ratio Lower Upper

105 100

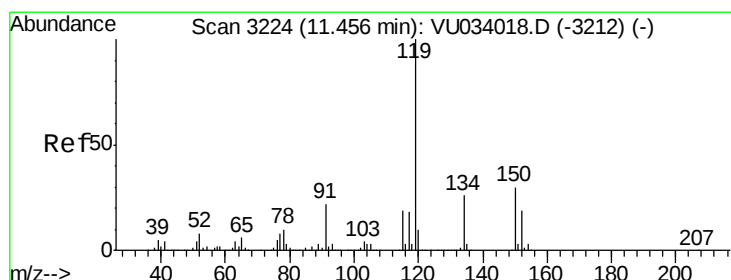
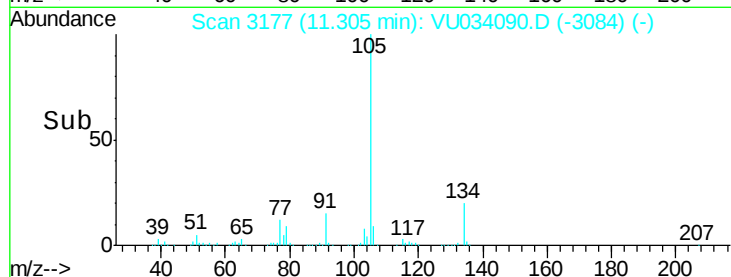
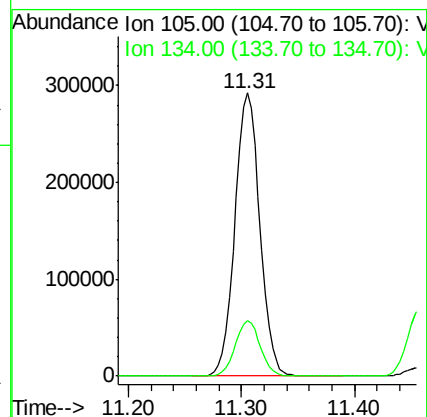
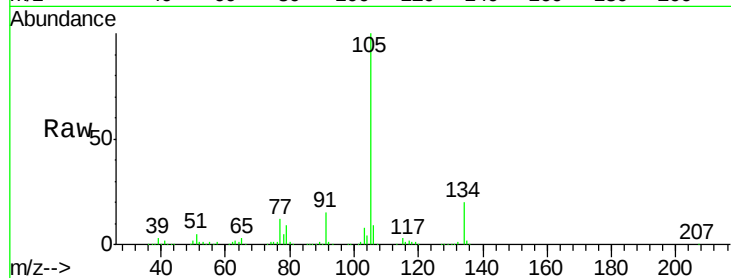
134 19.8 10.0 30.0

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#86

p-Isopropyltoluene

Concen: 18.773 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

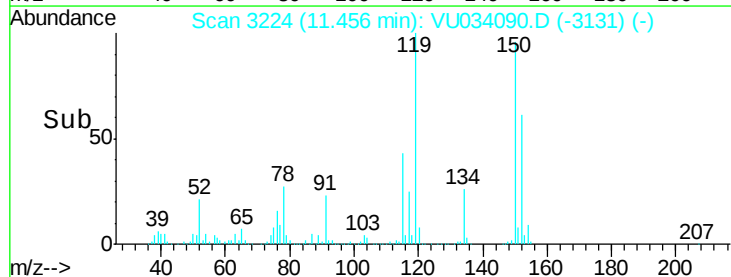
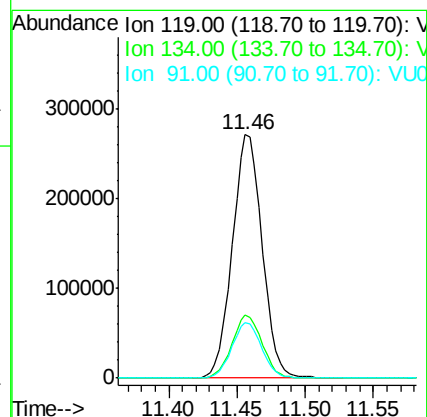
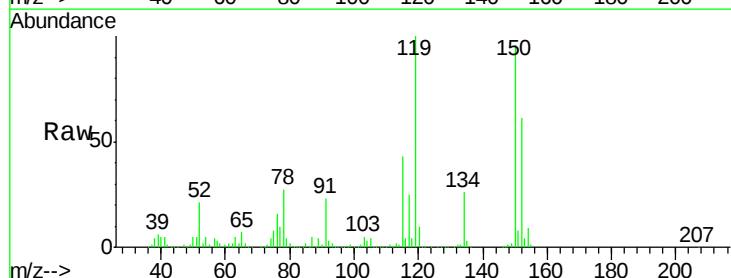
Tgt Ion:119 Resp: 408940

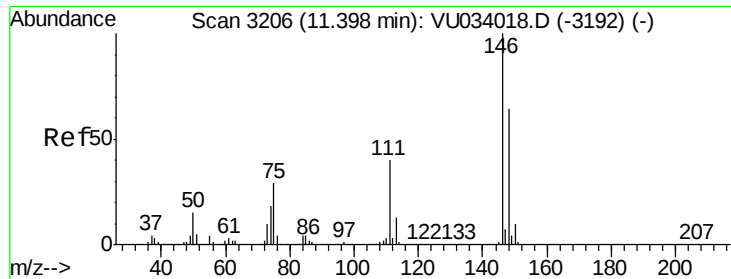
Ion Ratio Lower Upper

119 100

134 26.2 13.1 39.1

91 23.0 11.2 33.6





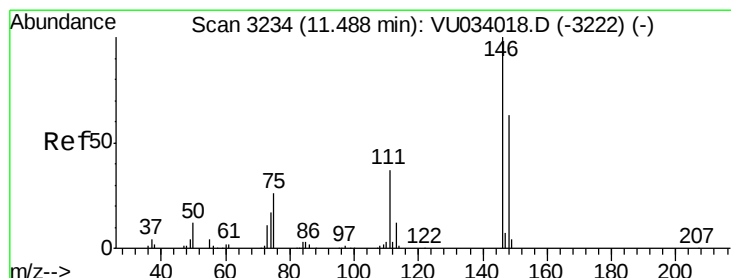
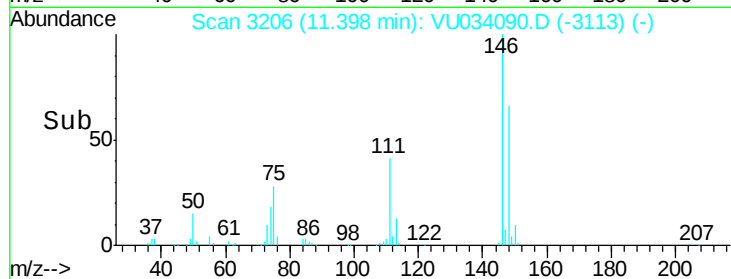
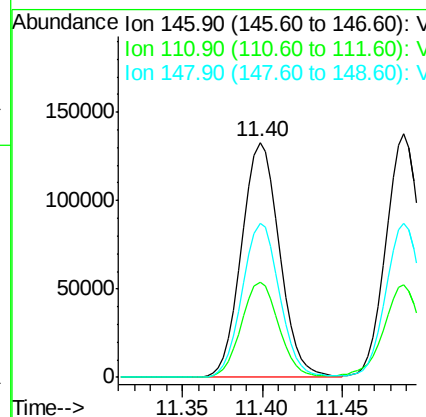
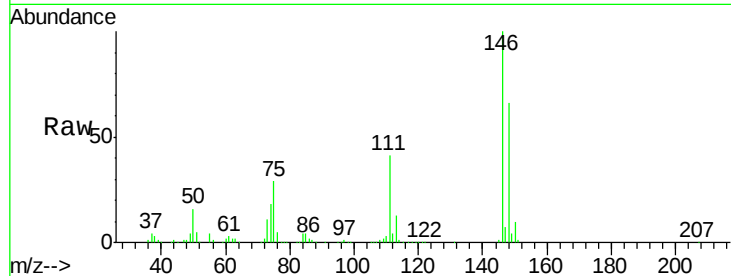
#87
 1,3-Dichlorobenzene
 Concen: 18.689 ug/l
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.9	59.6
148	64.7	31.9	95.5

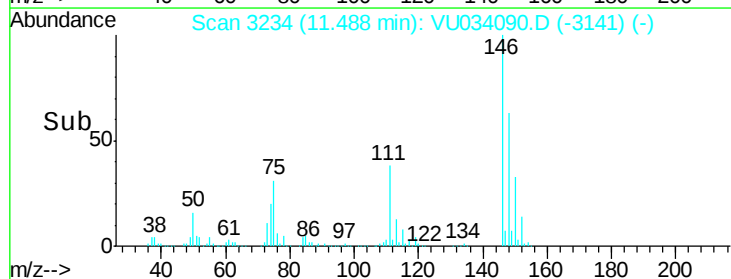
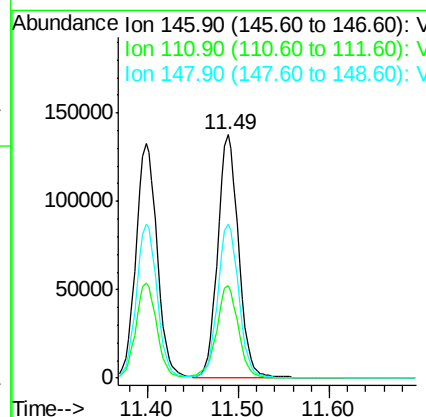
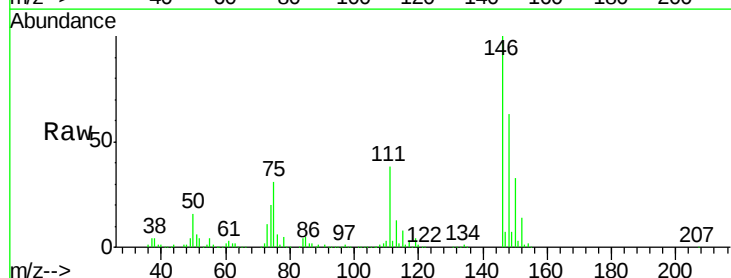
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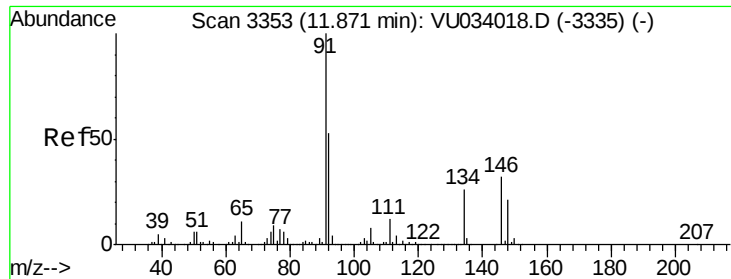
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#88
 1,4-Dichlorobenzene
 Concen: 18.861 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.2	57.6
148	63.8	31.9	95.9





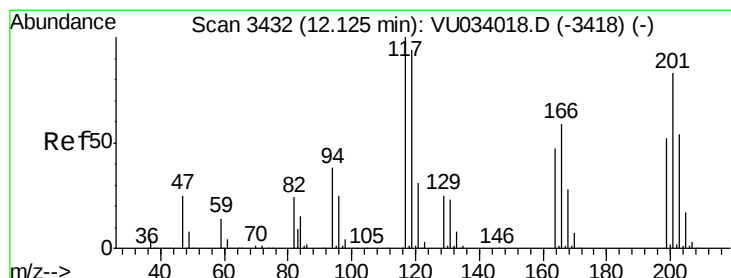
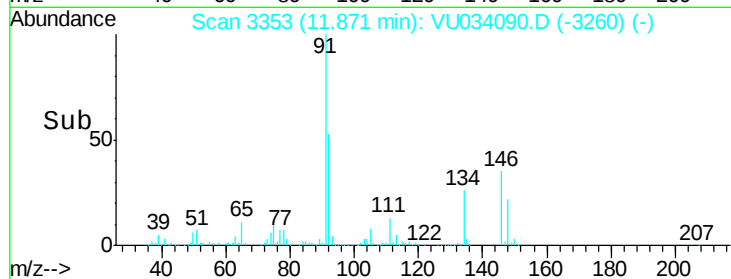
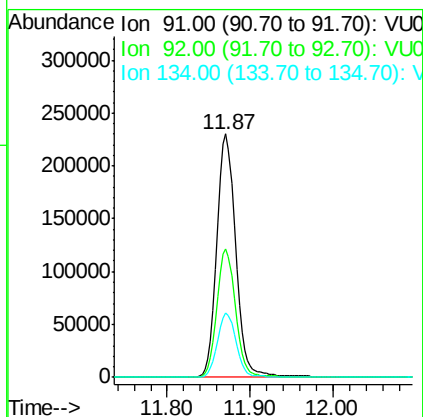
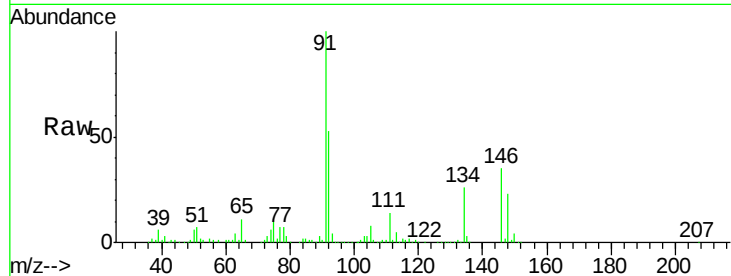
#89
n-Butylbenzene
Concen: 19.051 ug/l
RT: 11.87 min Scan# 3353
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VU0831WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.3	78.9
134	25.9	12.9	38.7

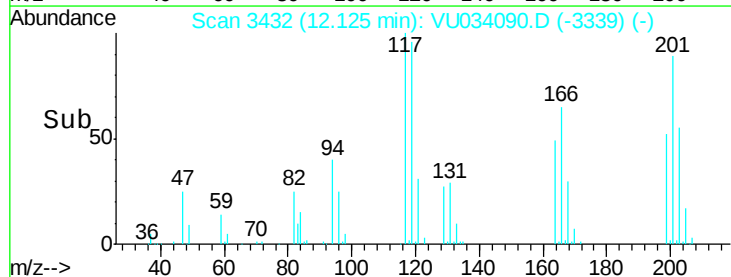
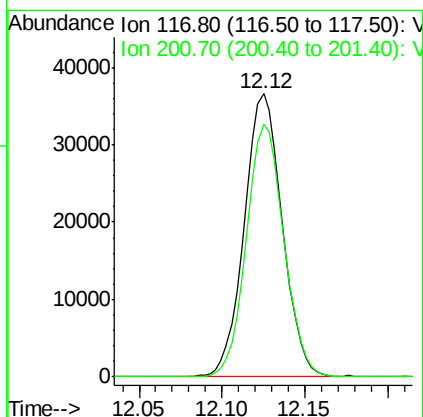
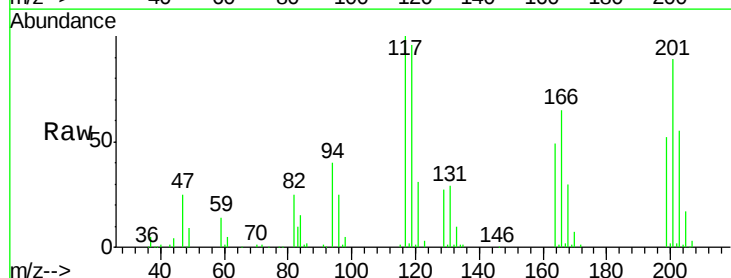
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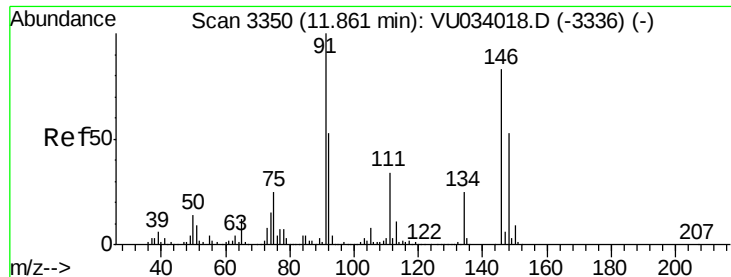
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#90
Hexachloroethane
Concen: 15.481 ug/l
RT: 12.12 min Scan# 3432
Delta R.T. 0.00 min
Lab File: VU034090.D
Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.9	42.5	127.6





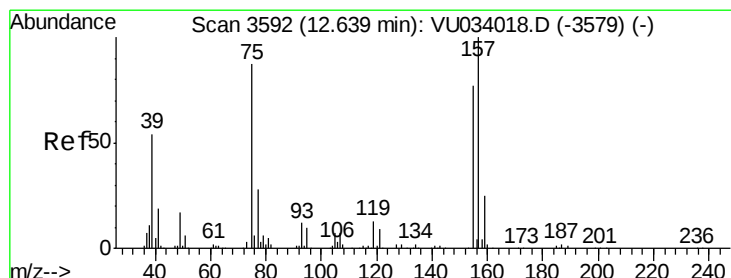
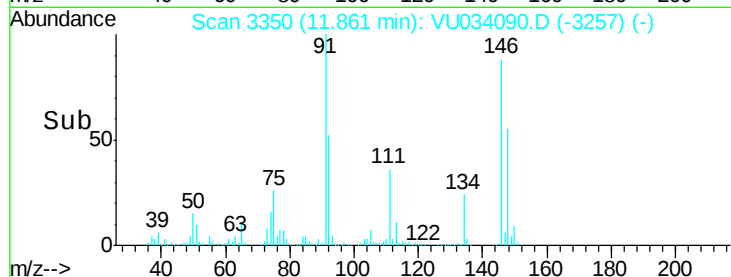
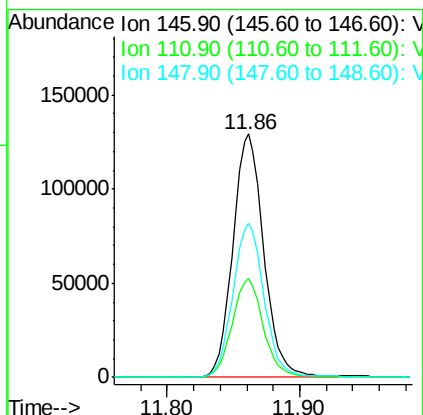
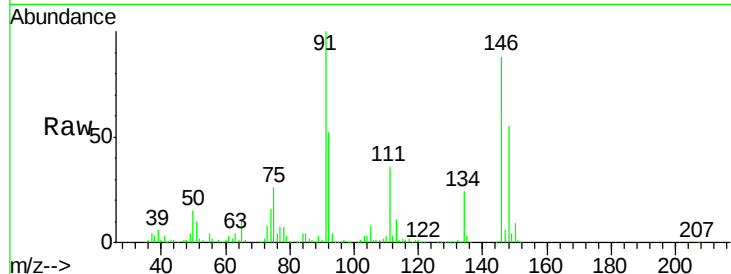
#91
 1,2-Dichlorobenzene
 Concen: 19.049 ug/l
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	209302		
111	41.1	20.4	61.2	
148	64.1	32.3	96.8	

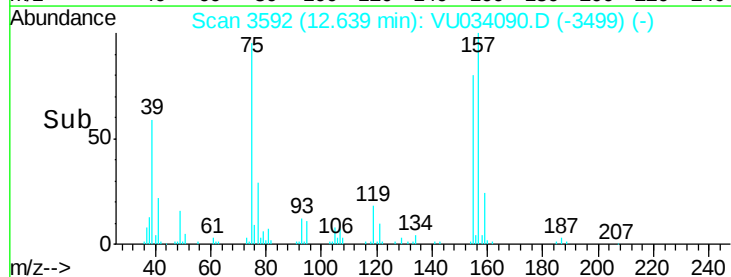
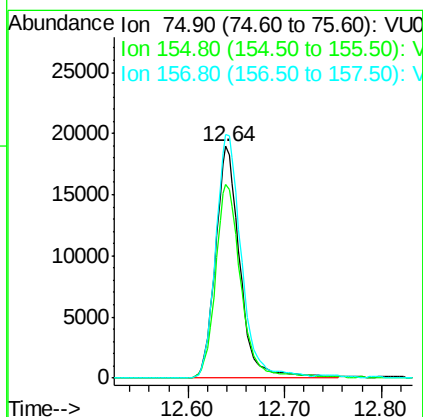
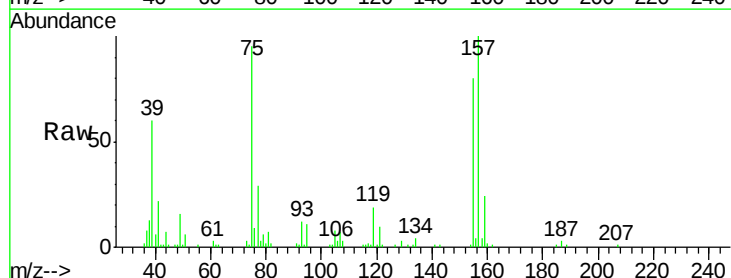
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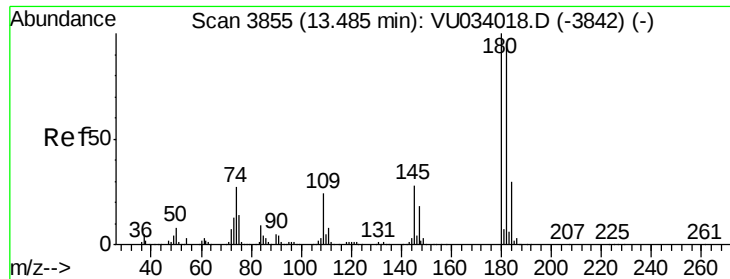
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.101 ug/l
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	33243		
155	86.6	43.5	130.7	
157	110.0	56.9	170.6	





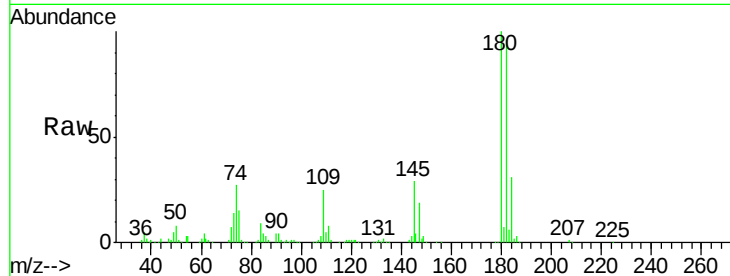
#93
 1,2,4-Trichlorobenzene
 Concen: 19.286 ug/l
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831WBS01

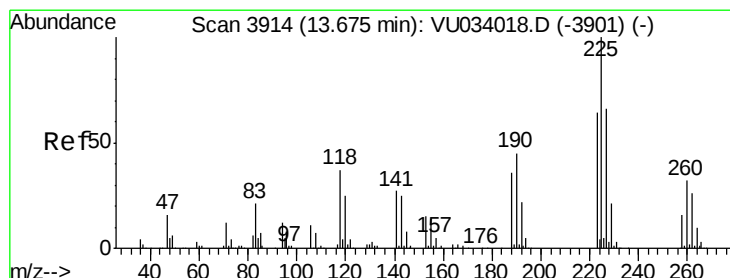
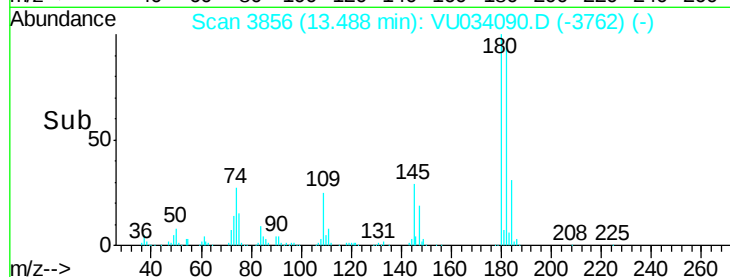
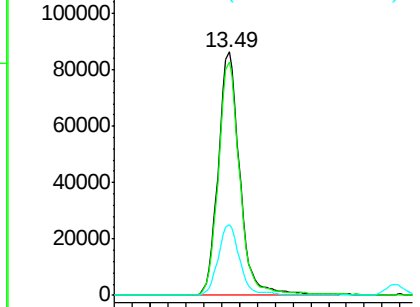
Tot Ion	Ratio	Resp	Lower	Upper
180	100	145252		
182	94.2	47.4	142.2	
145	29.0	14.1	42.3	

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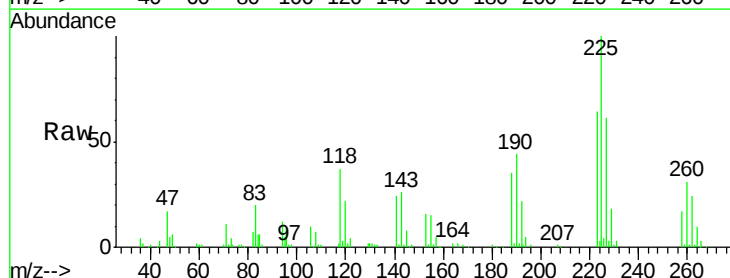


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

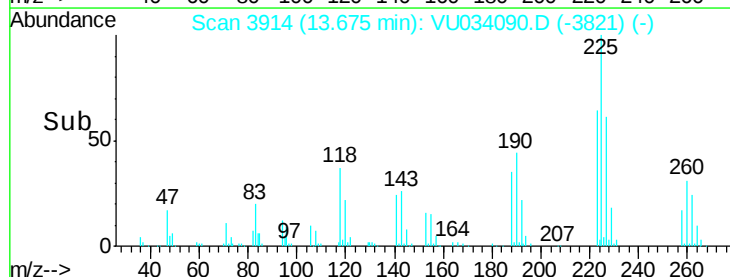
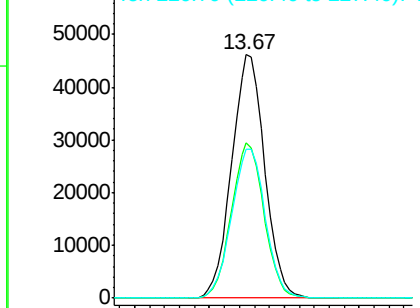


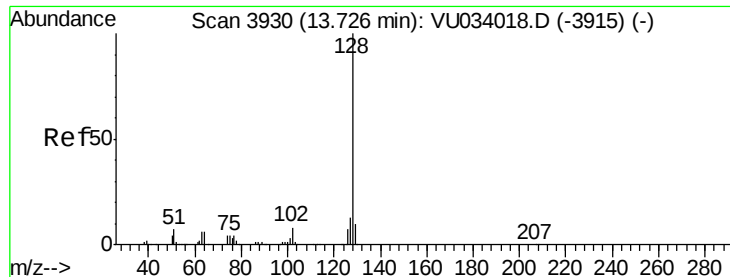
#94
 Hexachlorobutadiene
 Concen: 16.524 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034090.D
 Acq: 30 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	71021		
223	63.0	31.8	95.3	
227	62.5	32.6	97.8	



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: 21.422 ug/l

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Instrument :

MSVOA_U

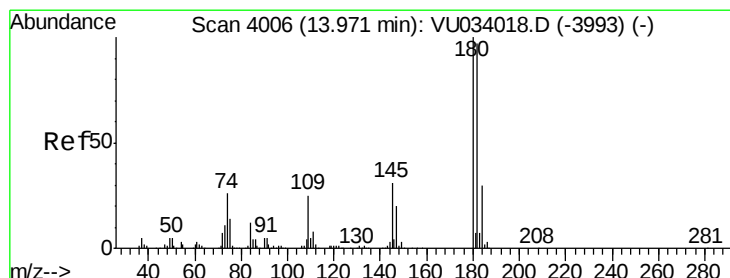
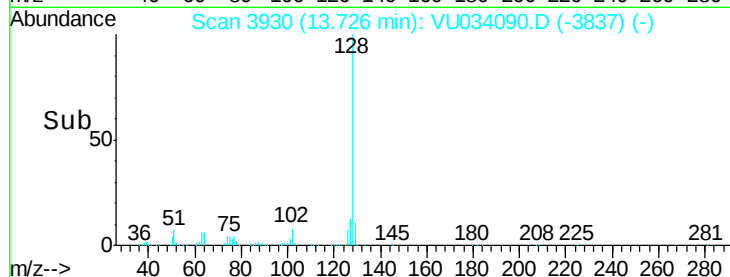
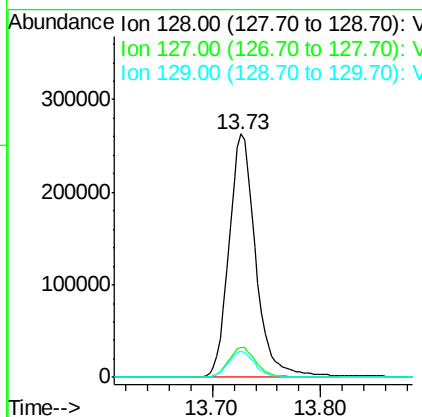
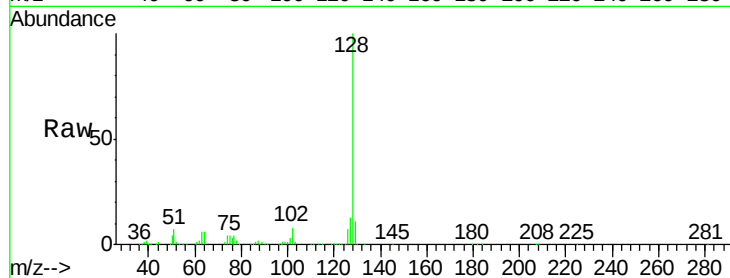
ClientSampleId :

VU0831WBS01

Tot Ion:	128	Resp:	455693
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.7	8.4	12.6

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#96

1,2,3-Trichlorobenzene

Concen: 20.799 ug/l

RT: 13.97 min Scan# 4006

Delta R.T. 0.00 min

Lab File: VU034090.D

Acq: 30 Aug 2019 12:02

Tgt Ion:	180	Resp:	146393
Ion Ratio	Lower	Upper	
180	100		
182	96.1	48.2	144.6
145	30.8	15.5	46.5

