

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU112618\
 Data File : VU028332.D
 Acq On : 26 Nov 2018 11:49
 Operator : MD/SY
 Sample : VSTDIC020
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:37 PM

Quant Time: Nov 27 01:02:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U0112618DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Nov 27 00:37:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	50206	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	19347	1.05	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	18550	1.08	ug/l	0.00
Spiked Amount 1.000			Recovery	=	108.00%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.21	85	365636	20.245	ug/l	100
3) Chloromethane	1.32	50	585085	19.034	ug/l	99
4) Vinyl Chloride	1.40	62	424159	20.162	ug/l	98
5) Bromomethane	1.62	94	144495	17.433	ug/l	99
6) Chloroethane	1.70	64	242413	19.737	ug/l	99
7) Trichlorofluoromethane	1.89	101	458432	19.952	ug/l	99
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	262073	19.831	ug/l	99
9) 1,1-Dichloroethene	2.29	96	237334	19.416	ug/l	97
10) Iodomethane	2.41	142	199575	24.141	ug/l	99
11) Allyl Chloride	2.59	41	605628	19.626	ug/l	99
12) Acrylonitrile	2.94	53	147721	37.939	ug/l	99
13) Acetone	2.33	43	328864	91.143	ug/l	98
14) Carbon Disulfide	2.48	76	917712	19.765	ug/l	100
15) Methylene Chloride	2.70	84	283055	18.990	ug/l	98
16) trans-1,2-Dichloroethene	2.98	96	265742	19.425	ug/l	99
17) 1,1-Dichloroethane	3.44	63	603867	19.801	ug/l	99
18) 2-Butanone	4.28	43	558006	103.494	ug/l	99
19) Cyclohexane	4.99	56	542976	20.509	ug/l	99
20) Methylcyclohexane	6.41	83	545161	21.036	ug/l	100
21) 2,2-Dichloropropane	4.22	77	469762	19.193	ug/l	99
22) cis-1,2-Dichloroethene	4.22	96	322853	20.167	ug/l	97
23) Diethyl Ether	2.11	59	243261	19.852	ug/l	99
24) tert-Butyl Alcohol	2.85	59	248198	209.404	ug/l	99
25) Methyl tert-Butyl Ether	3.00	73	725646	19.985	ug/l	100
26) Bromochloromethane	4.55	128	118745	19.459	ug/l	98
27) Chloroform	4.67	83	557122	18.943	ug/l	100
28) 1,1,1-Trichloroethane	4.91	97	453207	19.733	ug/l	100
29) 1,1-Dichloropropene	5.13	75	452599	20.541	ug/l	99
30) Carbon Tetrachloride	5.13	117	368210	19.853	ug/l	97
31) Isopropyl Ether	3.58	45	1107138	20.272	ug/l	99
32) Ethyl-t-butyl ether	4.08	59	918374	20.417	ug/l	99
33) Tert-Amyl methyl ether	5.58	73	759517	20.355	ug/l	99
34) Propionitrile	4.34	54	146610	108.243	ug/l #	96
35) Benzene	5.39	78	1312400	20.234	ug/l	98
36) 1,2-Dichloroethane	5.40	62	378667	19.519	ug/l	99
37) Trichloroethene	6.18	130	290909	20.592	ug/l	98
38) 1,2-Dichloropropane	6.43	63	370260	20.017	ug/l	97
39) Methacrylonitrile	4.55	41	144633	19.935	ug/l	99
40) Methyl acrylate	4.43	55	202836	20.322	ug/l	99
41) Tetrahydrofuran	4.65	42	146017	40.040	ug/l	98
42) 1-Chlorobutane	5.06	56	710476	20.286	ug/l	100

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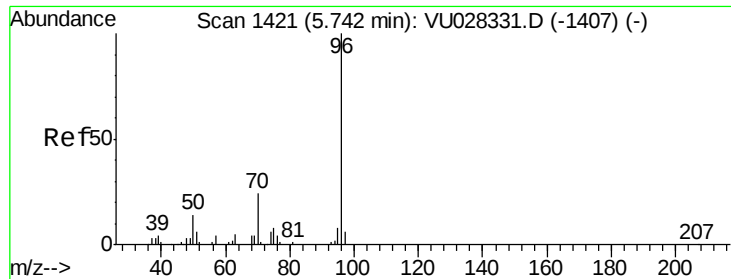
Manual Integrations
 APPROVED

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 11/30/2018 2:33:37 PM

Quant Time: Nov 27 01:02:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U0112618DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Nov 27 00:37:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	159879	20.304	ug/l	100
44) Bromodichloromethane	6.76	83	415861	20.001	ug/l	97
45) 4-Methyl-2-Pentanone	7.46	43	1315966	104.047	ug/l	99
46) t-1,4-Dichloro-2-butene	10.52	75	202964m	44.756	ug/l	
47) Methyl methacrylate	6.63	69	345860	43.032	ug/l	98
48) Ethyl methacrylate	8.02	69	350150	21.779	ug/l	99
49) Toluene	7.64	92	760263	21.106	ug/l	100
50) t-1,3-Dichloropropene	7.88	75	417731	20.917	ug/l	99
51) cis-1,3-Dichloropropene	7.27	75	508765	20.631	ug/l	99
52) 1,1,2-Trichloroethane	8.07	97	220529	19.949	ug/l	98
53) 1,3-Dichloropropane	8.24	76	414586	20.077	ug/l	99
54) 2-Hexanone	8.36	43	931577	102.388	ug/l	98
55) Dibromochloromethane	8.48	129	246434	20.957	ug/l	99
56) 1,2-Dibromoethane	8.58	107	203038	20.163	ug/l	98
58) Tetrachloroethene	8.22	164	260146	20.112	ug/l	97
59) Chlorobenzene	9.12	112	771337	20.578	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.21	131	256098	20.161	ug/l	98
61) Pentachloroethane	11.10	117	202780	20.514	ug/l	100
62) Hexachloroethane	12.14	117	199787	21.568	ug/l	98
63) Ethyl Benzene	9.25	91	1490830	21.555	ug/l	99
64) m/p-Xylenes	9.37	106	1072708	42.857	ug/l	98
65) o-Xylene	9.78	106	520510	21.550	ug/l	98
66) Styrene	9.79	104	907838	21.913	ug/l	99
67) Bromoform	9.96	173	139448	21.160	ug/l	100
69) Isopropylbenzene	10.17	105	1396739	21.596	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.46	83	301199	20.312	ug/l	98
71) 1,2,3-Trichloropropane	10.49	75	207076m	20.270	ug/l	
72) Bromobenzene	10.45	156	307024	21.387	ug/l	99
73) n-propylbenzene	10.59	120	372213	22.189	ug/l	99
74) 2-Chlorotoluene	10.66	126	315143	21.441	ug/l	97
75) 1,3,5-Trimethylbenzene	10.77	105	1186367	21.795	ug/l	98
76) 4-Chlorotoluene	10.77	126	327451	21.974	ug/l	99
77) tert-Butylbenzene	11.10	119	1122465	21.903	ug/l	99
78) 1,2,4-Trimethylbenzene	11.15	105	1230679	22.063	ug/l	99
79) sec-Butylbenzene	11.32	105	1580179	22.119	ug/l	99
80) Nitrobenzene	12.86	77	81908	122.608	ug/l	99
81) p-Isopropyltoluene	11.48	119	1272103	22.408	ug/l	100
82) 1,3-Dichlorobenzene	11.42	146	618524	21.511	ug/l	100
83) 1,4-Dichlorobenzene	11.50	146	618101	21.597	ug/l	99
84) n-Butylbenzene	11.89	91	1380044	23.154	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	581785	21.257	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.66	75	50677	21.245	ug/l	99
87) 1,2,4-Trichlorobenzene	13.50	180	445872	23.174	ug/l	98
88) Hexachlorobutadiene	13.69	225	230857	22.177	ug/l	99
89) Naphthalene	13.74	128	872098	22.935	ug/l	99
90) 1,2,3-Trichlorobenzene	13.99	180	403428	22.237	ug/l	99

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



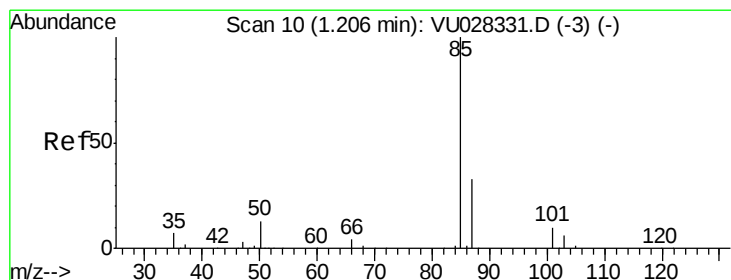
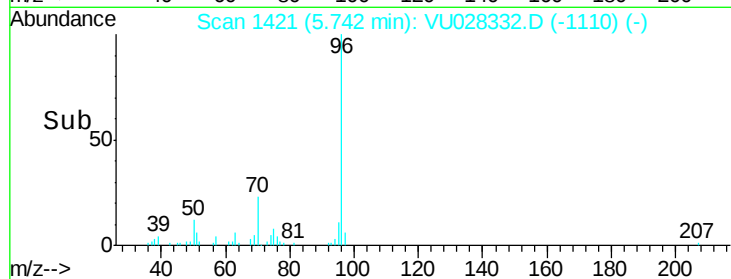
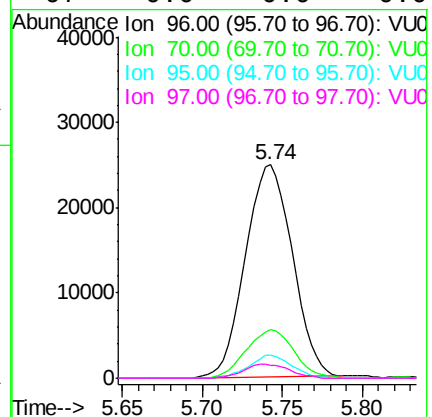
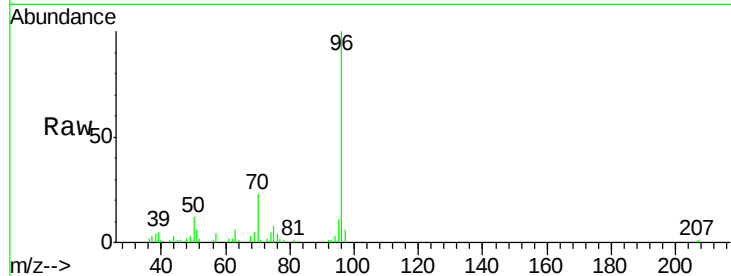
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 Fluorobenzene
 Concen: 1.000 ug/l
 RT: 5.74 min Scan# 1421
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
96	100		
70	23.3	17.8	26.8
95	0.0	7.6	11.4#
97	0.0	0.0	0.0

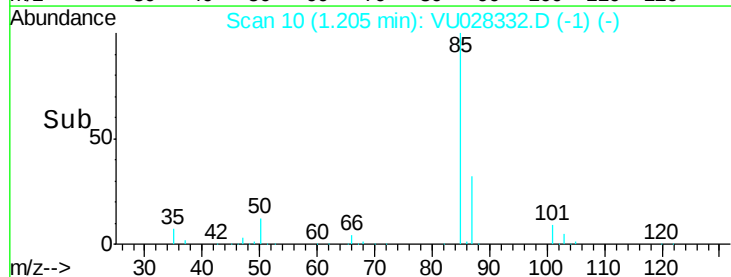
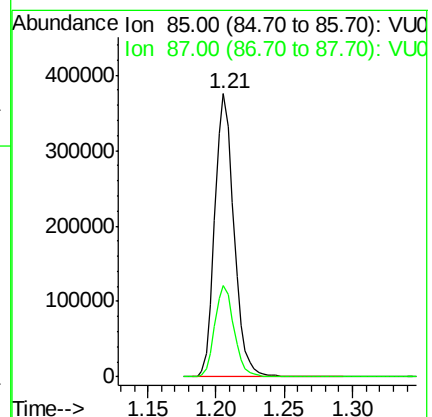
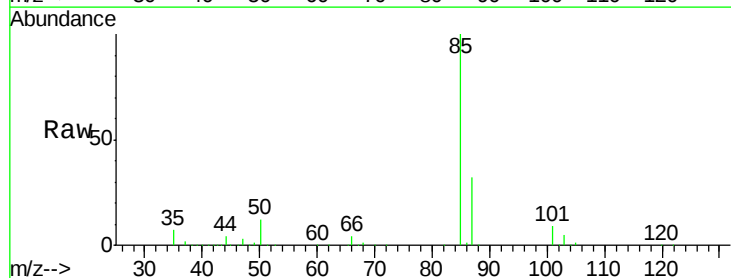
Manual Integrations
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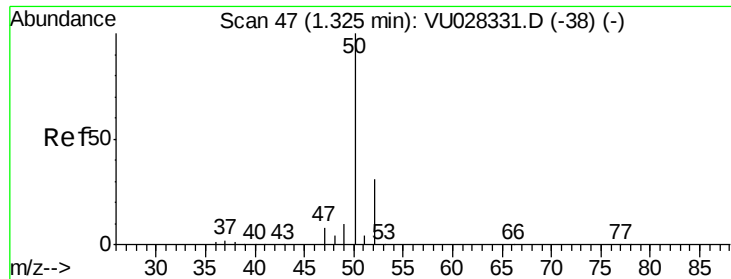
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 11/30/2018 2:33:37 PM



#2
 Dichlorodifluoromethane
 Concen: 20.245 ug/l
 RT: 1.21 min Scan# 10
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.3	48.8





#3

Chloromethane

Concen: 19.034 ug/l

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 585085

Ion Ratio Lower Upper

50 100

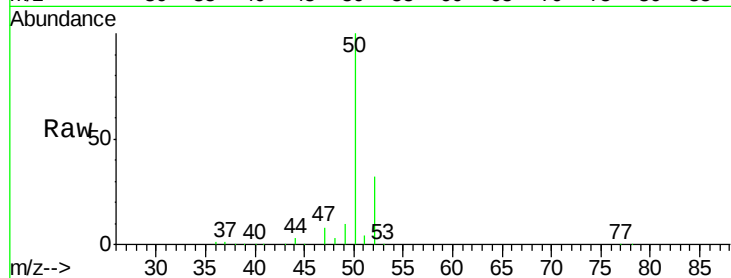
52 31.8 25.1 37.7

Manual Integrations

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Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

1.32

600000

500000

400000

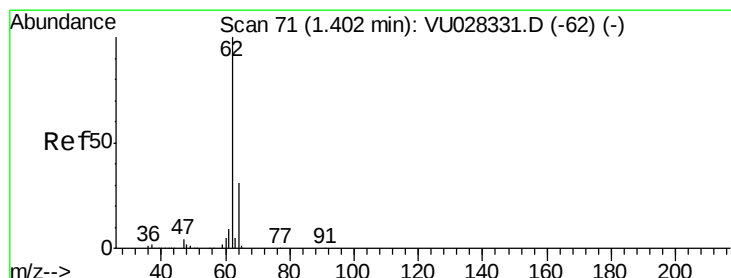
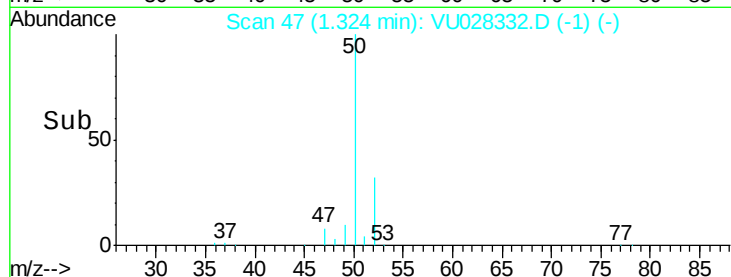
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 20.162 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028332.D

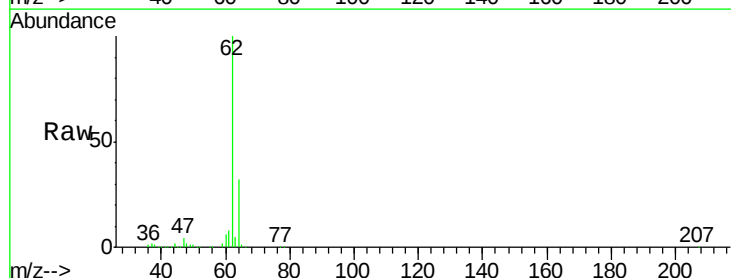
Acq: 26 Nov 2018 11:49

Tgt Ion: 62 Resp: 424159

Ion Ratio Lower Upper

62 100

64 31.8 24.7 37.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

400000

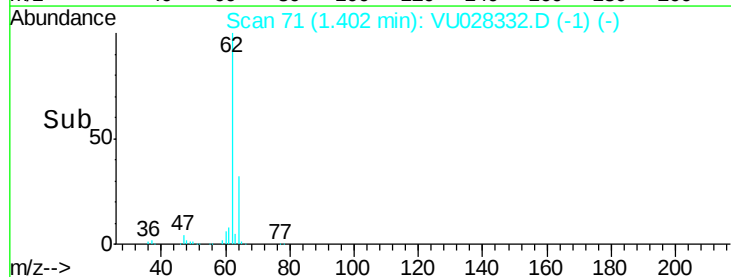
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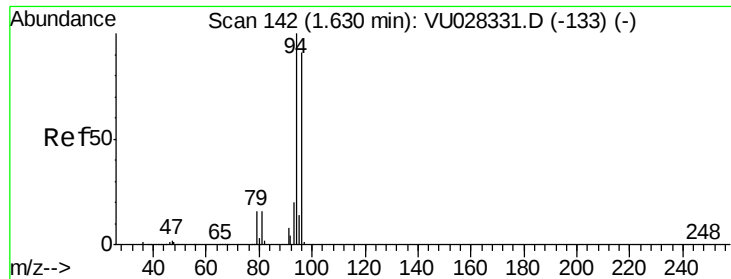
200000

100000

0

Time-->





#5

Bromomethane

Concen: 17.433 ug/l

RT: 1.62 min Scan# 140

Delta R.T. -0.01 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 94 Resp: 144495

Ion Ratio Lower Upper

94 100

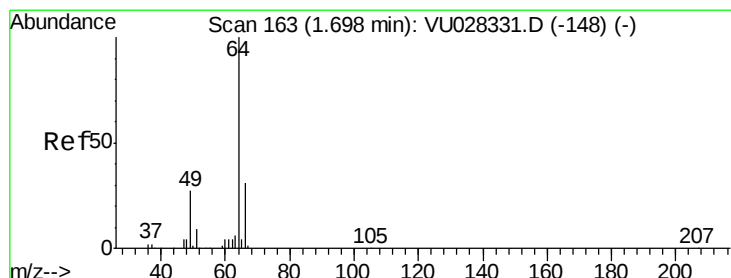
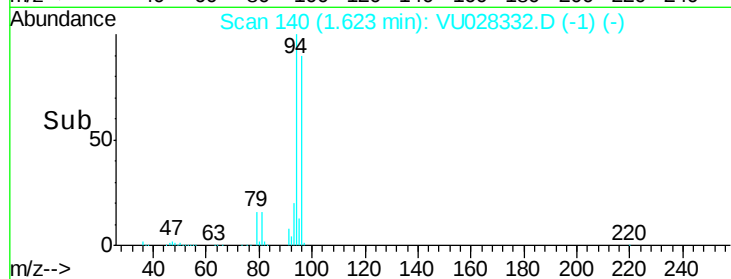
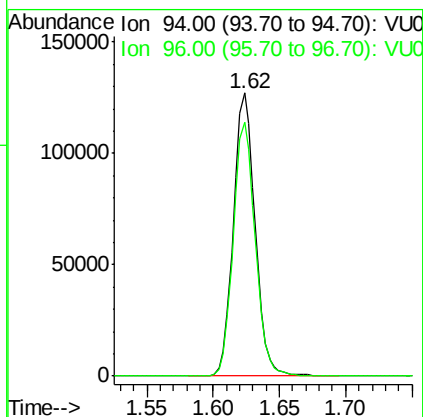
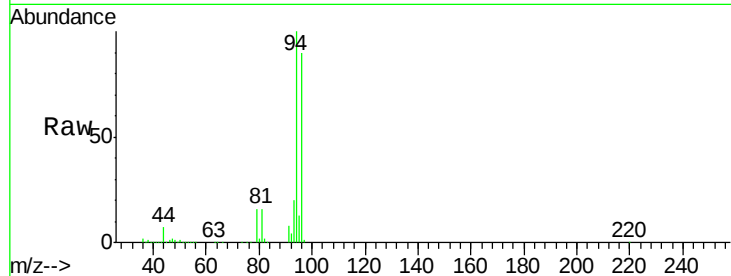
96 90.0 73.1 109.7

Manual Integrations

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#6

Chloroethane

Concen: 19.737 ug/l

RT: 1.70 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU028332.D

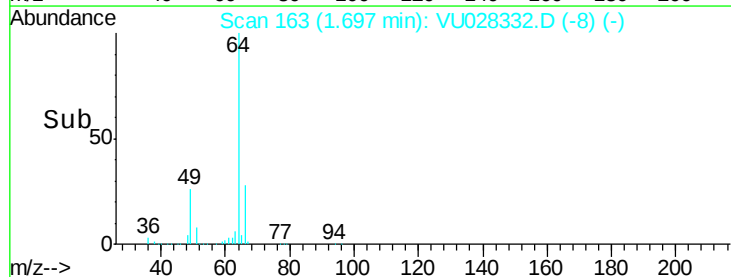
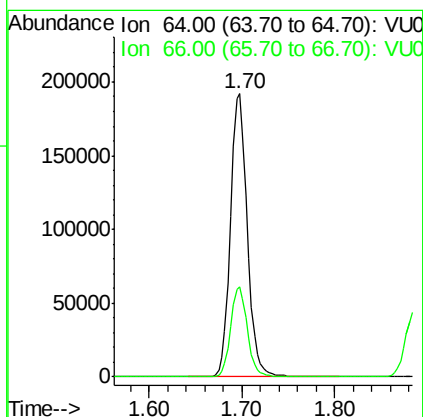
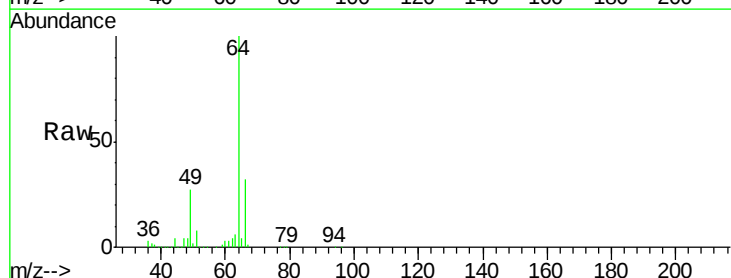
Acq: 26 Nov 2018 11:49

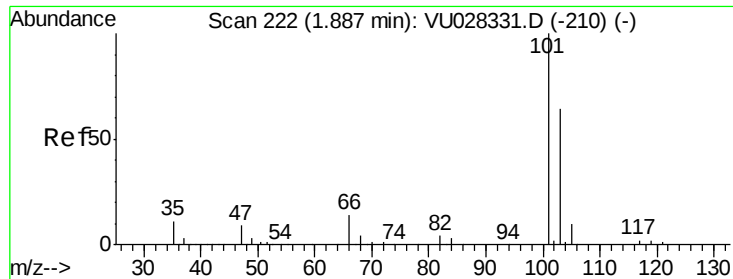
Tgt Ion: 64 Resp: 242413

Ion Ratio Lower Upper

64 100

66 31.9 25.1 37.7





#7

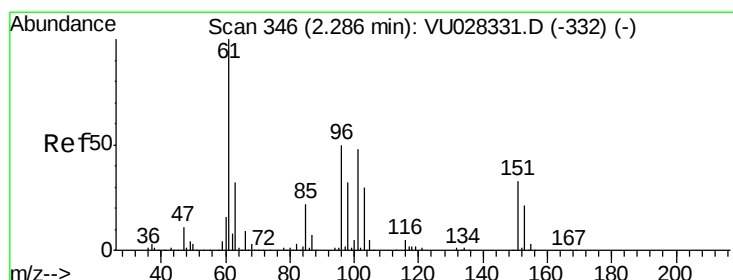
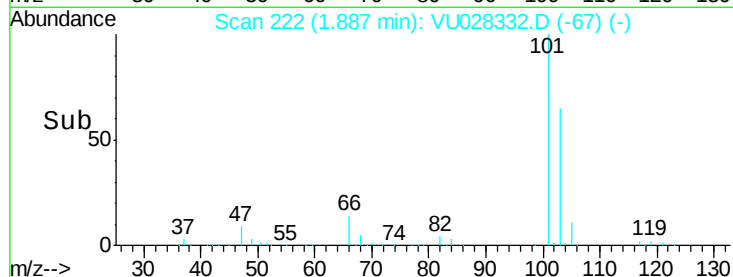
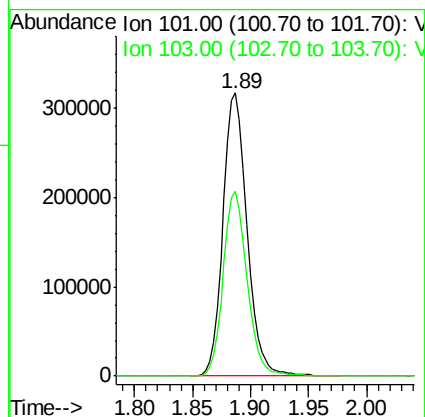
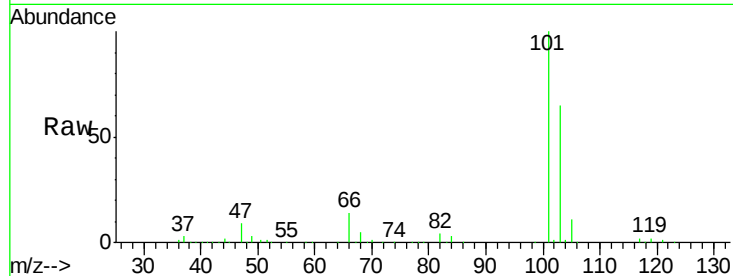
Trichlorofluoromethane
 Concen: 19.952 ug/l
 RT: 1.89 min Scan# 222
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion:101 Resp: 458432
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.4 77.0

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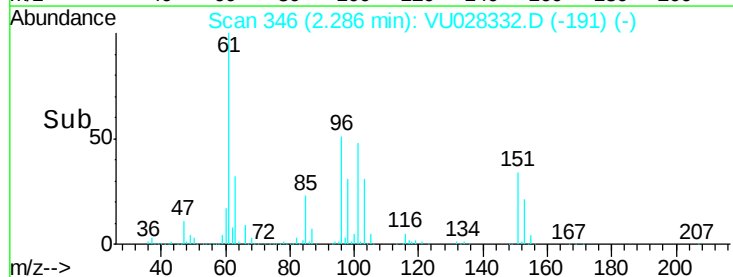
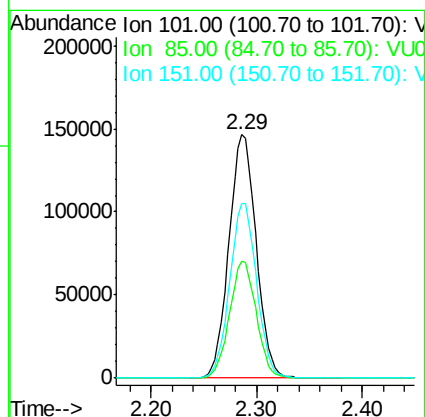
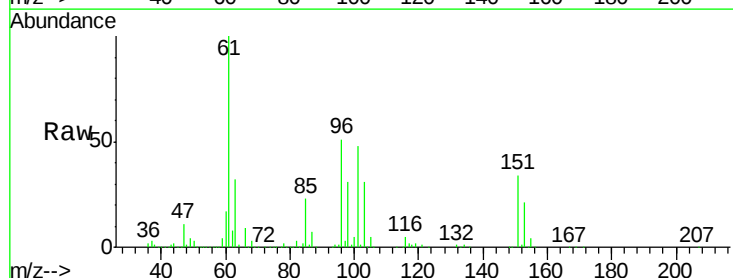
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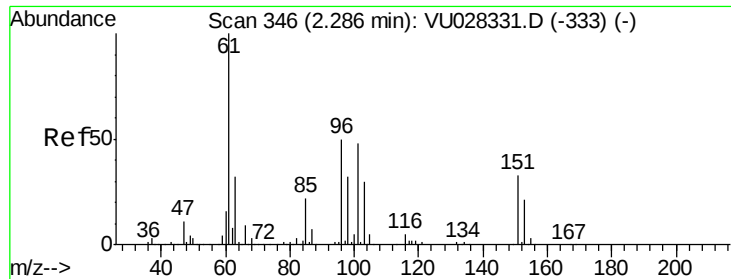


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 19.831 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion:101 Resp: 262073
 Ion Ratio Lower Upper
 101 100
 85 47.0 36.7 55.1
 151 70.8 55.8 83.6





#9

1,1-Dichloroethene

Concen: 19.416 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

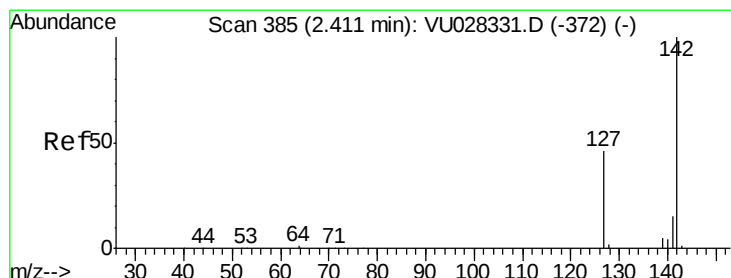
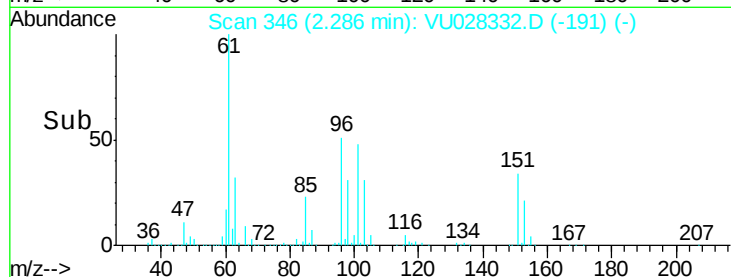
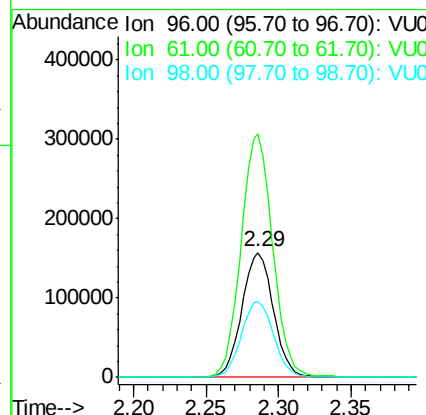
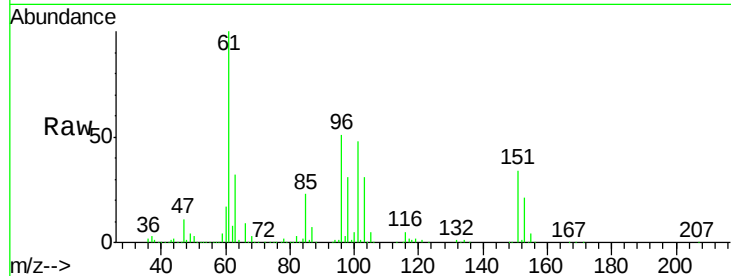
ClientSampleId :

VSTDIC020

Tgt Ion:	96	Resp:	237334
Ion Ratio	Lower	Upper	
96	100		
61	195.3	0.0	597.6
98	61.0	0.0	127.6

Manual Integrations
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#10

Iodomethane

Concen: 24.141 ug/l

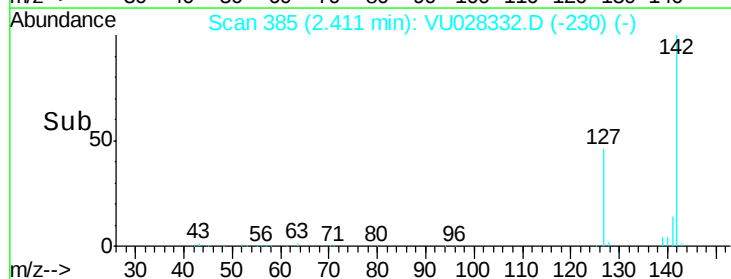
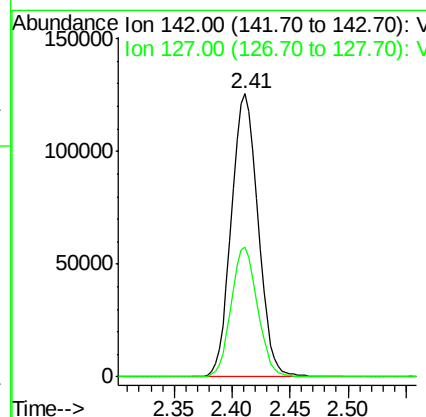
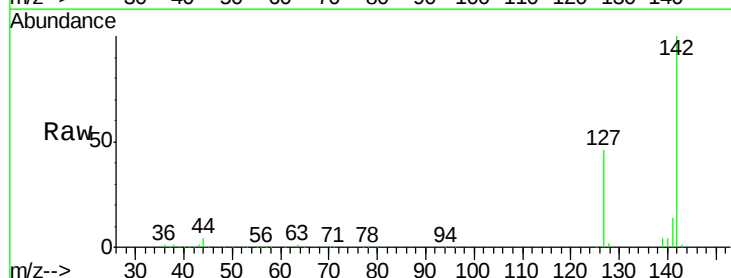
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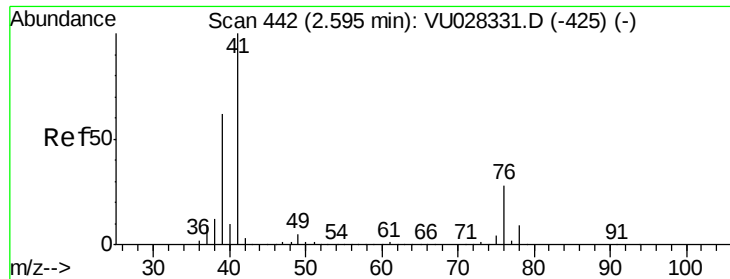
Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Tgt Ion:	142	Resp:	199575
Ion Ratio	Lower	Upper	
142	100		
127	44.8	36.4	54.6





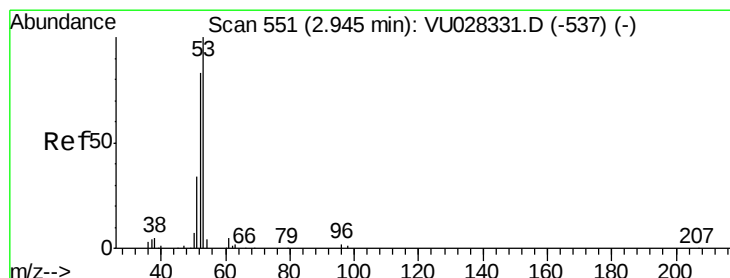
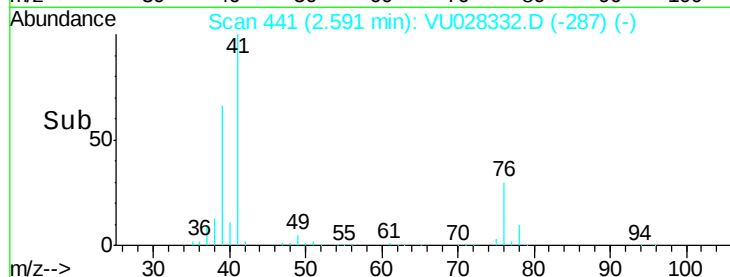
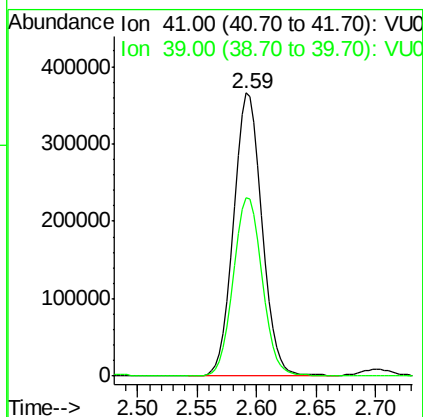
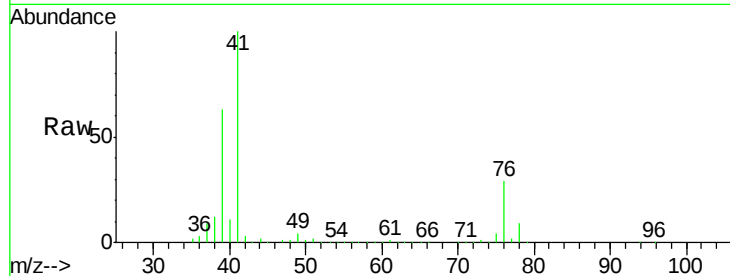
#11
 Allyl Chloride
 Concen: 19.626 ug/l
 RT: 2.59 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion: 41 Resp: 605628
 Ion Ratio Lower Upper
 41 100
 39 64.2 50.8 76.2

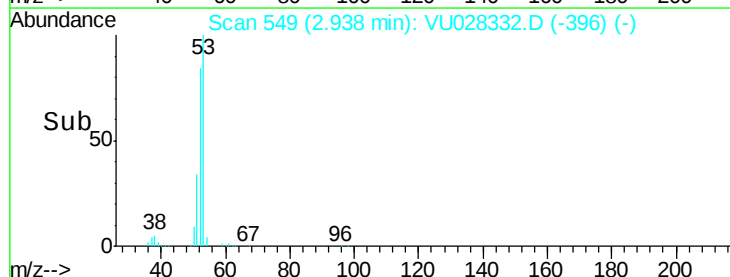
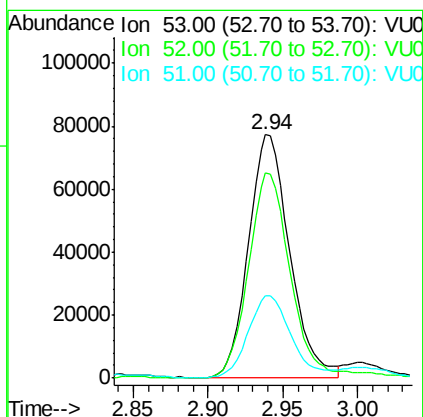
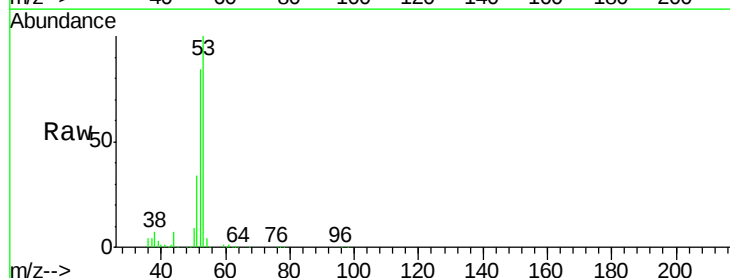
Manual Integrations
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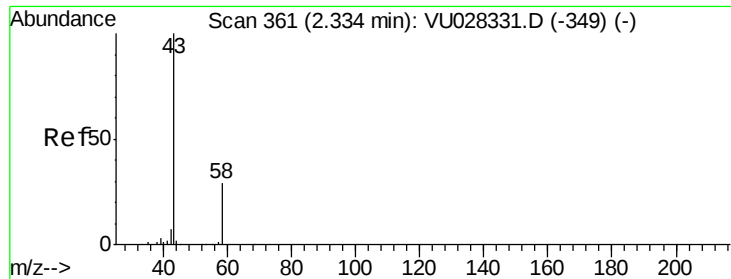
MMDadoda
 11/30/2018 2:33:37 PM



#12
 Acrylonitrile
 Concen: 37.939 ug/l
 RT: 2.94 min Scan# 549
 Delta R.T. -0.01 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion: 53 Resp: 147721
 Ion Ratio Lower Upper
 53 100
 52 85.1 69.3 103.9
 51 34.6 27.8 41.8





#13

Acetone

Concen: 91.143 ug/l

RT: 2.33 min Scan# 359

Delta R.T. -0.01 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 328864

Ion Ratio Lower Upper

43 100

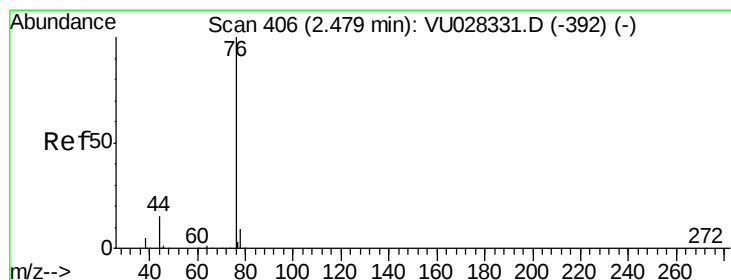
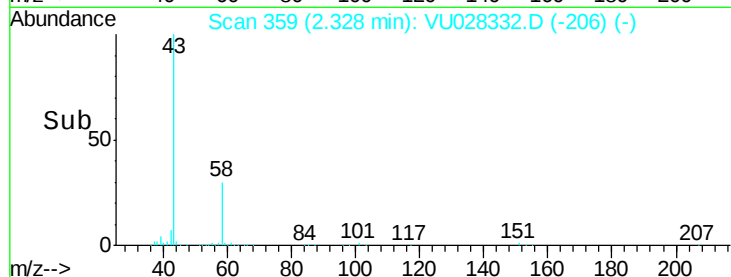
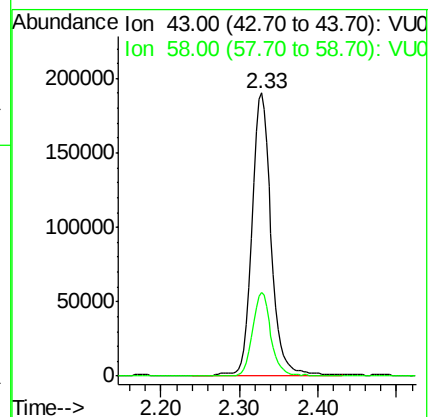
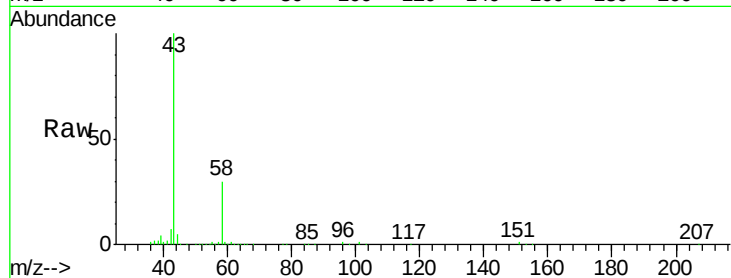
58 29.8 23.1 34.7

Manual Integrations

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MMDadoda

11/30/2018 2:33:37 PM



#14

Carbon Disulfide

Concen: 19.765 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028332.D

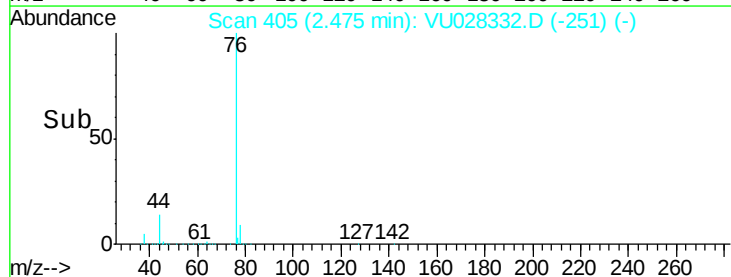
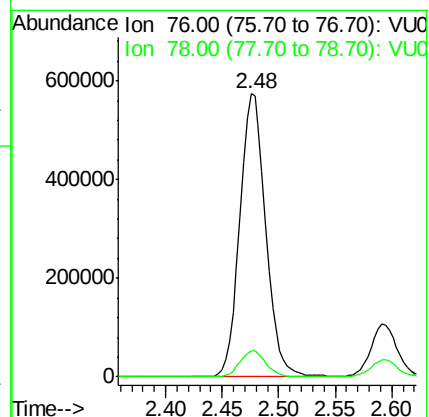
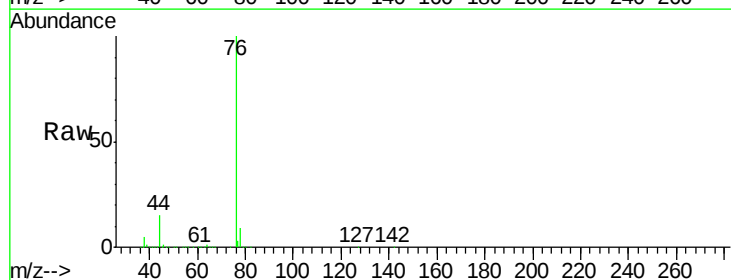
Acq: 26 Nov 2018 11:49

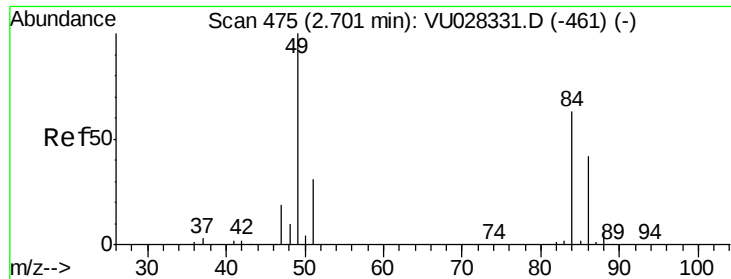
Tgt Ion: 76 Resp: 917712

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2





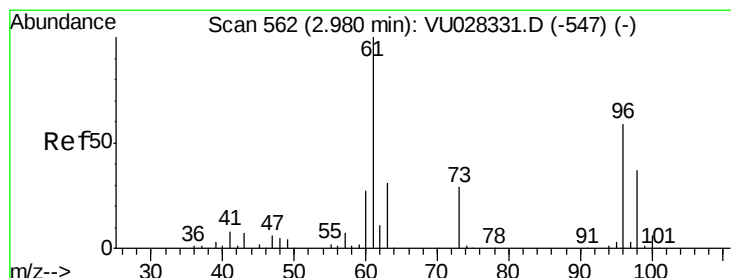
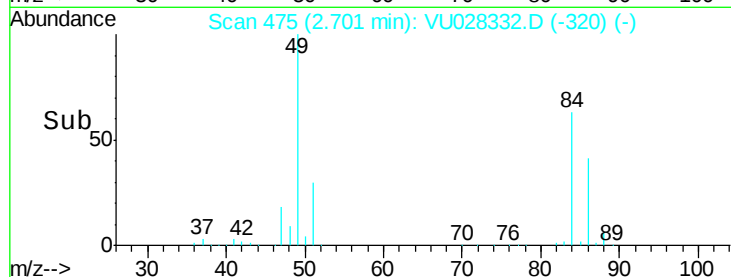
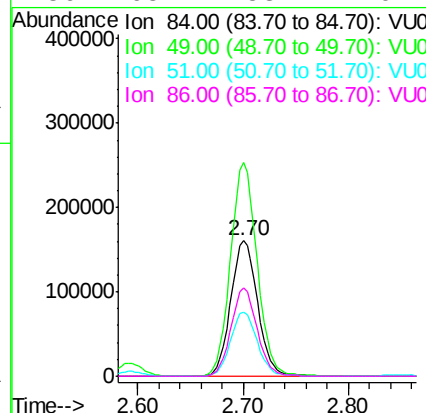
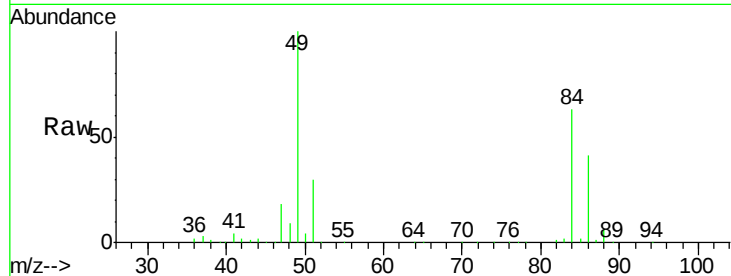
#15
Methylene Chloride
Concen: 18.990 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
84	100		
49	157.5	127.7	191.5
51	47.7	0.0	98.2
86	65.2	53.1	79.7

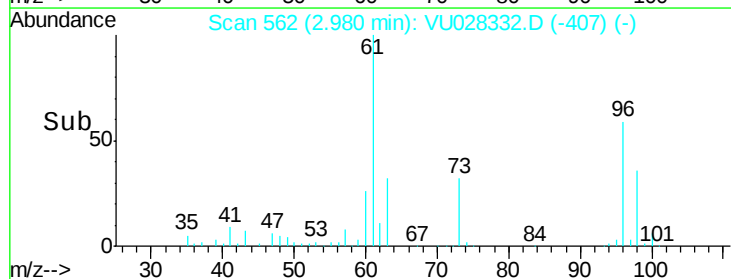
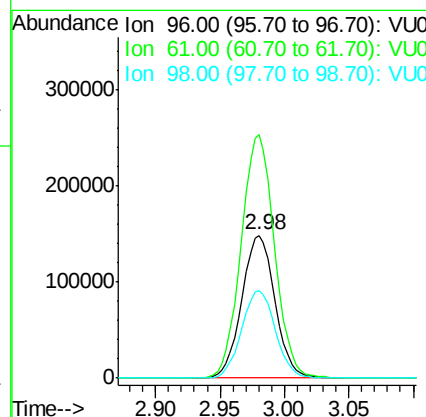
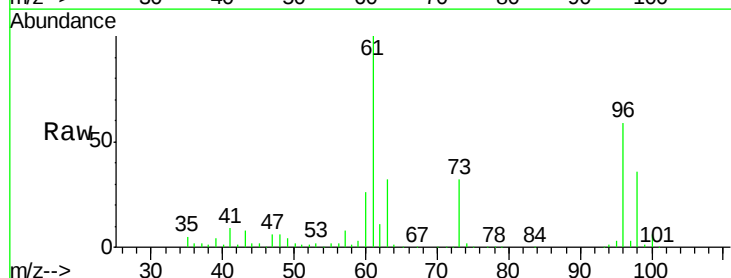
Manual Integrations
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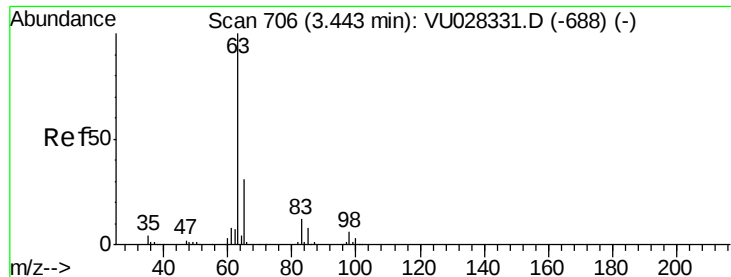
MMDadoda
11/30/2018 2:33:37 PM



#16
trans-1,2-Dichloroethene
Concen: 19.425 ug/l
RT: 2.98 min Scan# 562
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.8	136.4	204.6
98	61.1	49.8	74.8





#17

1,1-Dichloroethane

Concen: 19.801 ug/l

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

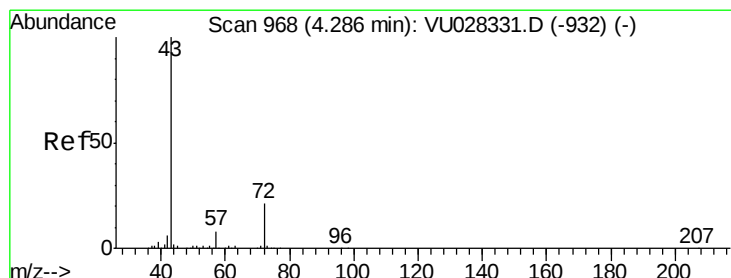
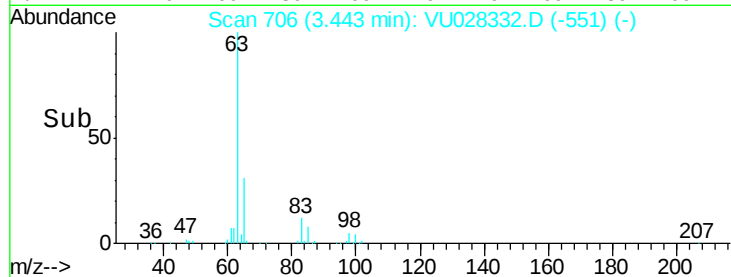
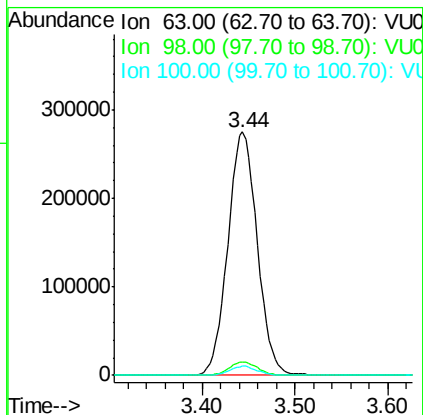
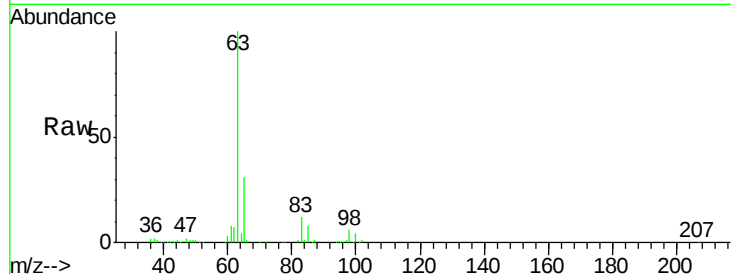
ClientSampleId :

VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	603867		
98	5.6	3.0	9.0	
100	3.9	1.8	5.3	

Manual Integrations
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MMDadoda
11/30/2018 2:33:37 PM



#18

2-Butanone

Concen: 103.494 ug/l

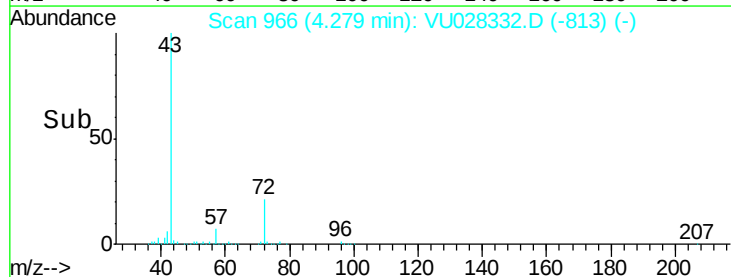
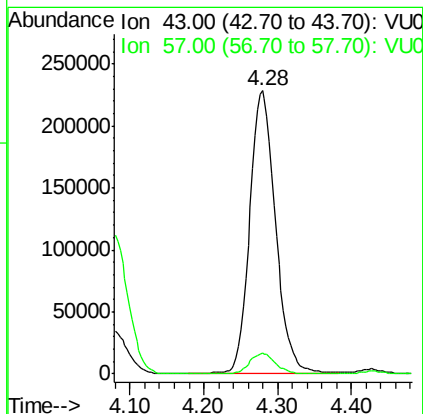
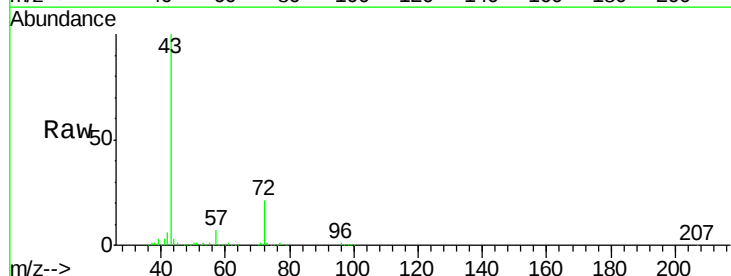
RT: 4.28 min Scan# 966

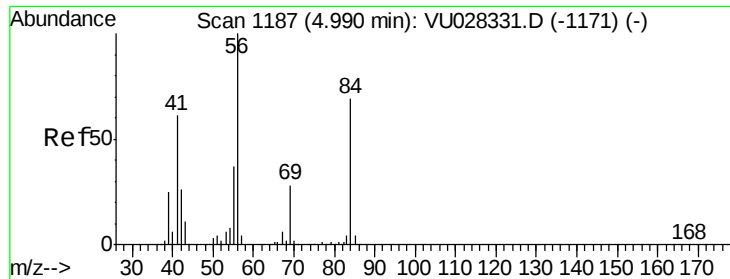
Delta R.T. -0.01 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	558006		
57	7.2	0.0	15.0	





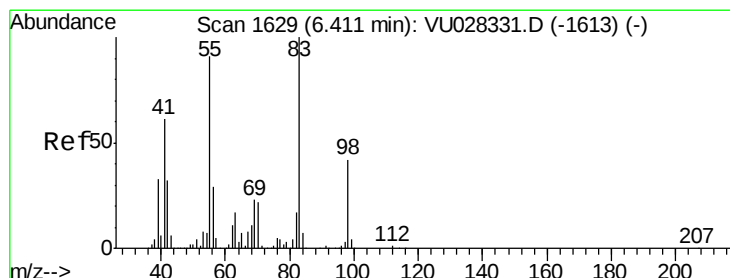
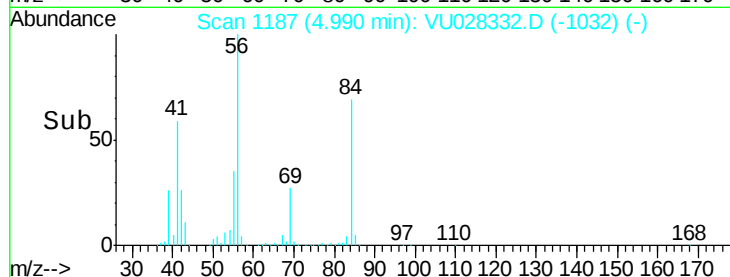
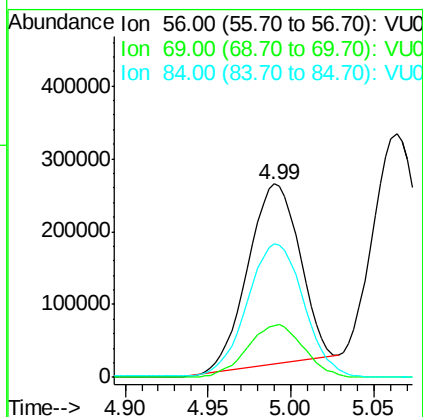
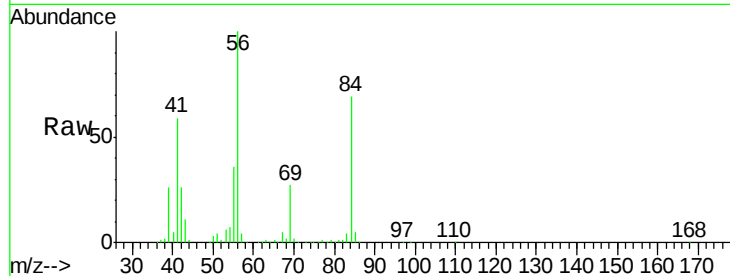
#19
Cyclohexane
Concen: 20.509 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.5	25.0	37.6
84	79.9	62.6	94.0

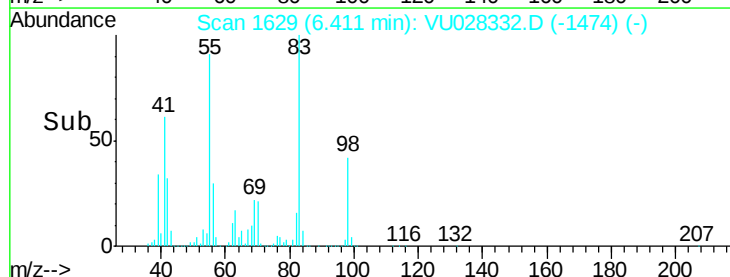
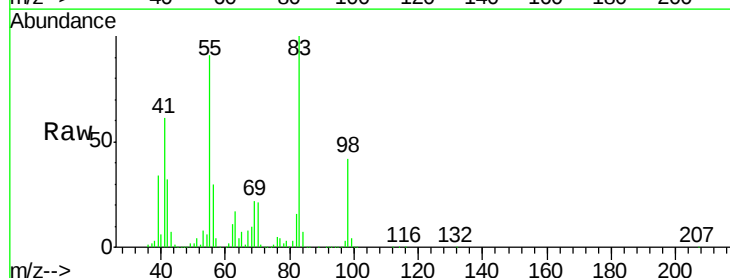
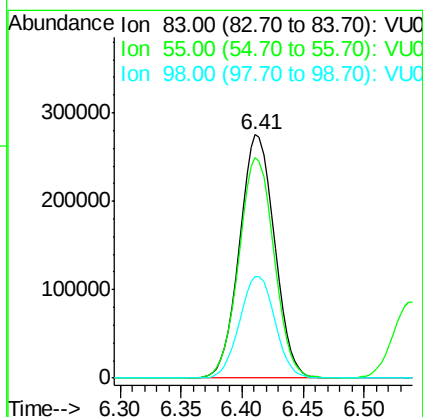
Manual Integrations
APPROVED

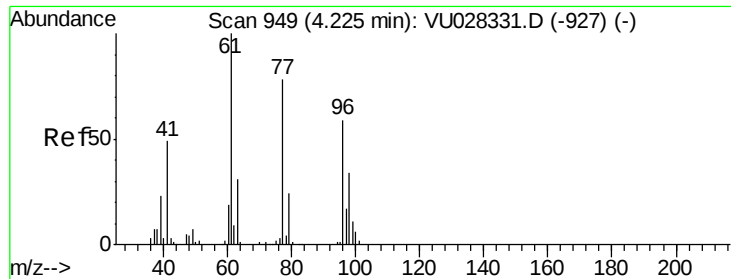
MMDadoda
11/30/2018 2:33:37 PM



#20
Methylcyclohexane
Concen: 21.036 ug/l
RT: 6.41 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
83	100		
55	91.1	72.6	108.8
98	42.4	33.8	50.8





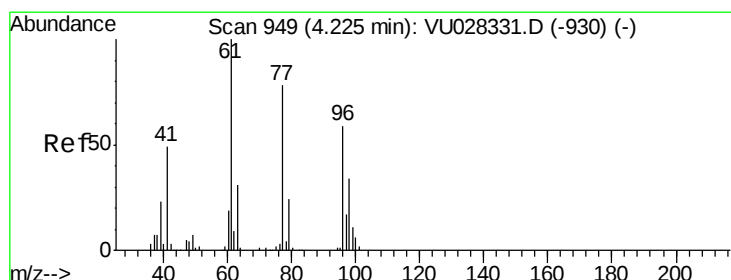
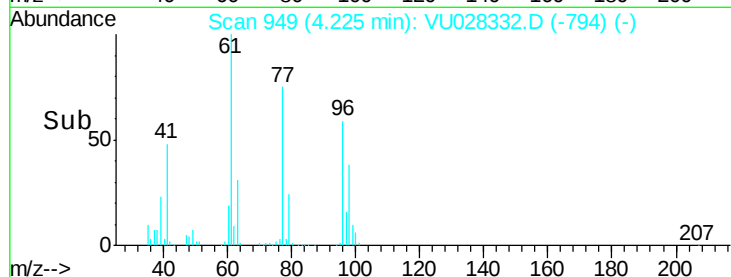
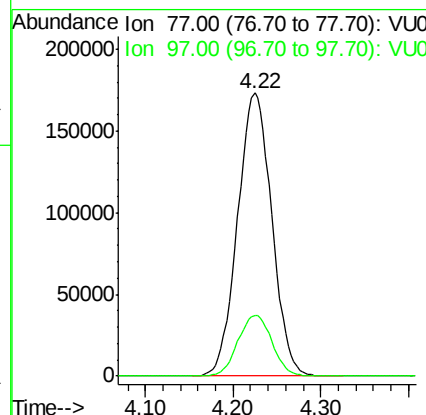
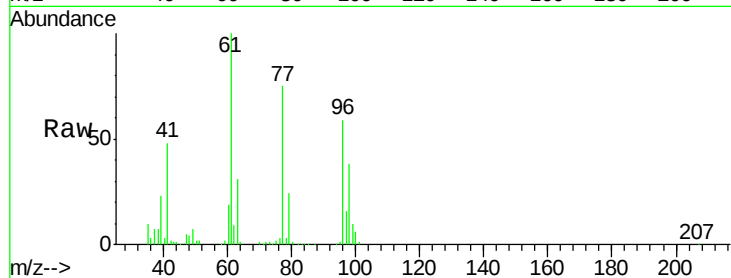
#21
 2,2-Dichloropropane
 Concen: 19.193 ug/l
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion: 77 Resp: 469762
 Ion Ratio Lower Upper
 77 100
 97 21.5 17.4 26.2

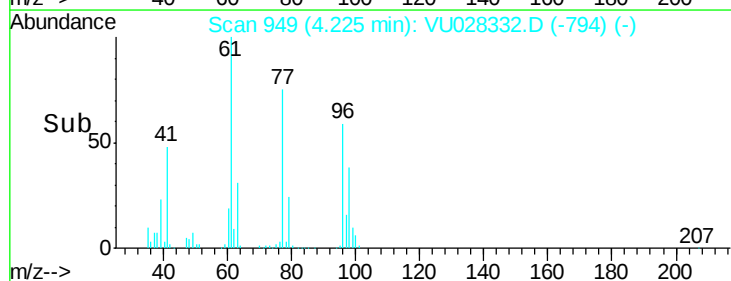
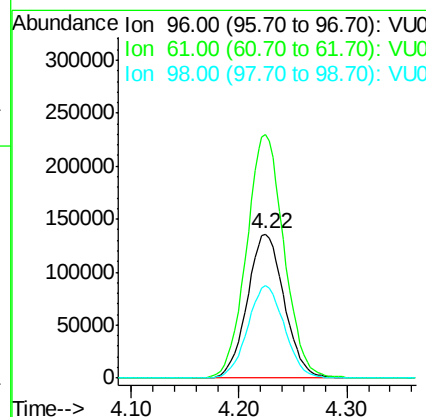
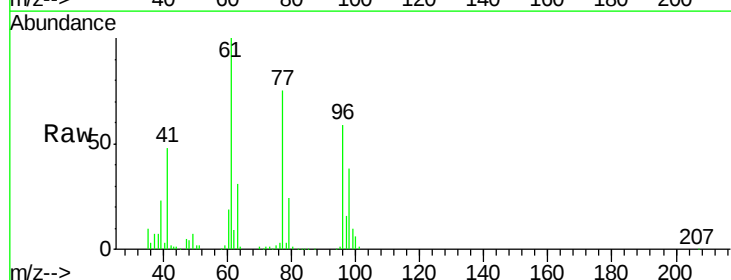
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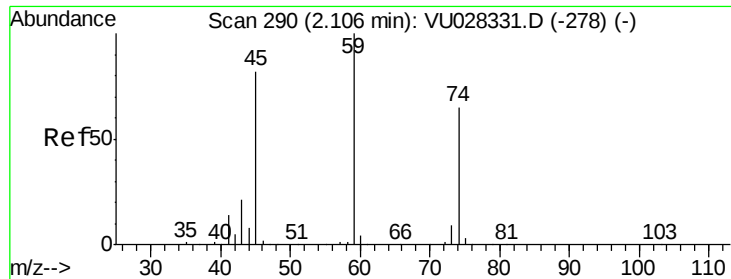
MMDadoda
 11/30/2018 2:33:37 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.167 ug/l
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion: 96 Resp: 322853
 Ion Ratio Lower Upper
 96 100
 61 171.6 0.0 423.0
 98 64.2 30.3 91.0





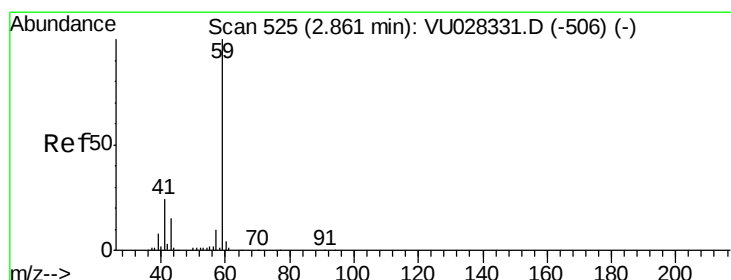
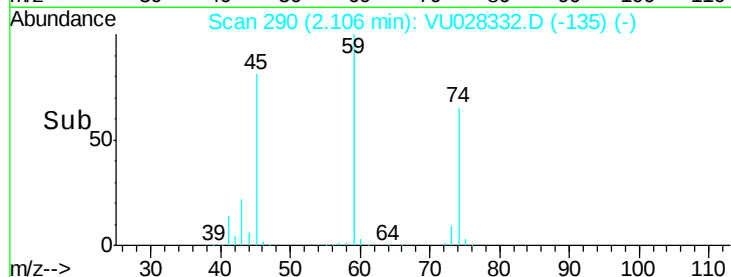
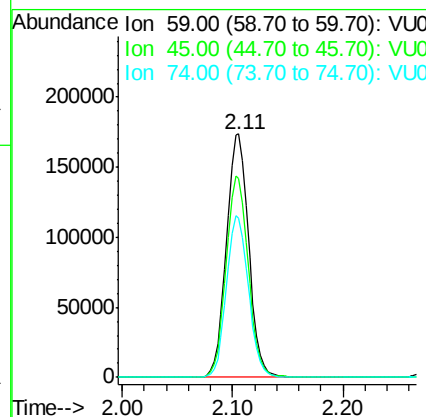
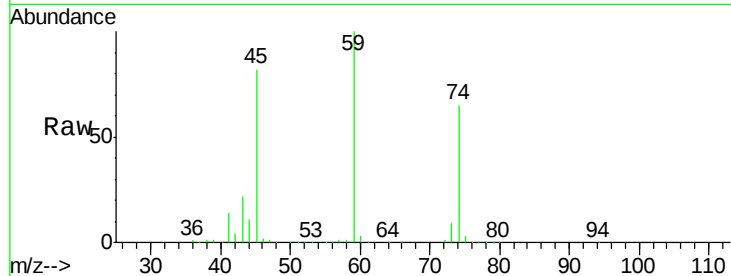
#23
Diethyl Ether
Concen: 19.852 ug/l
RT: 2.11 min Scan# 290
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
59	100		
45	81.8	66.4	99.6
74	65.9	52.2	78.4

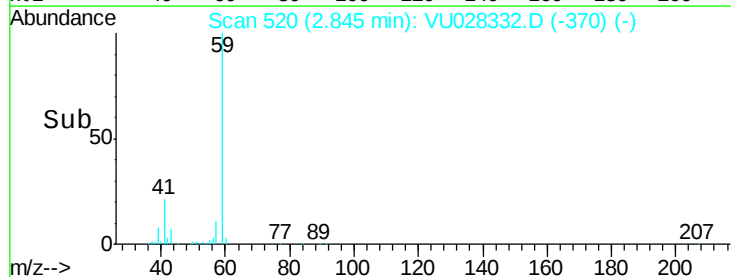
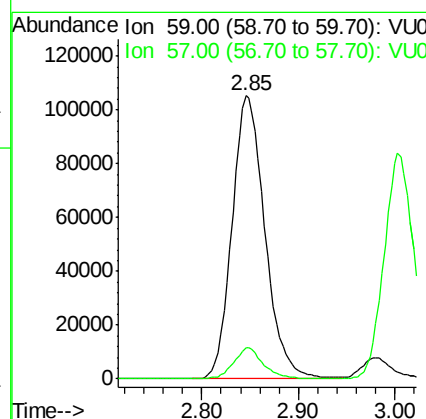
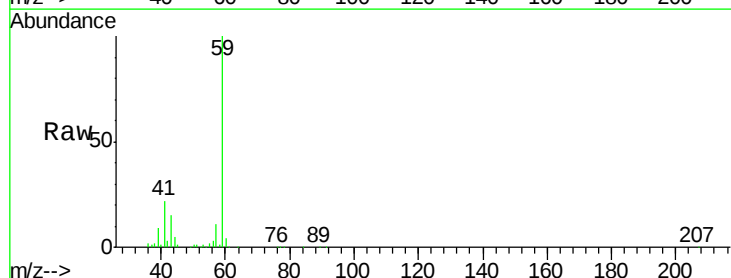
Manual Integrations
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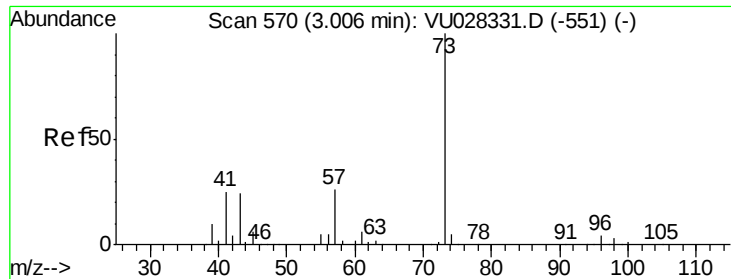
MMDadoda
11/30/2018 2:33:37 PM



#24
tert-Butyl Alcohol
Concen: 209.404 ug/l
RT: 2.85 min Scan# 520
Delta R.T. -0.02 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.4





#25

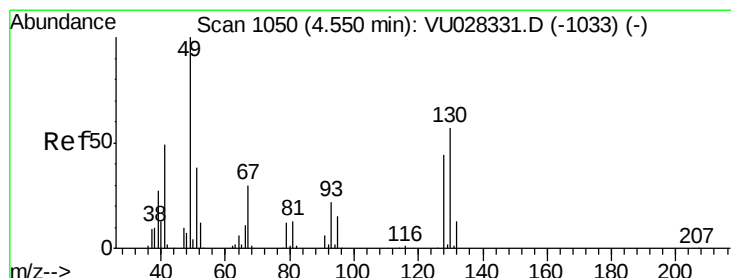
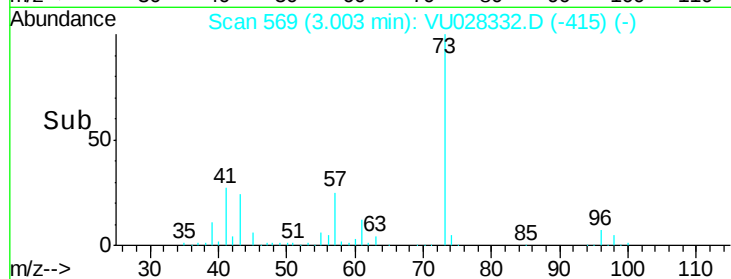
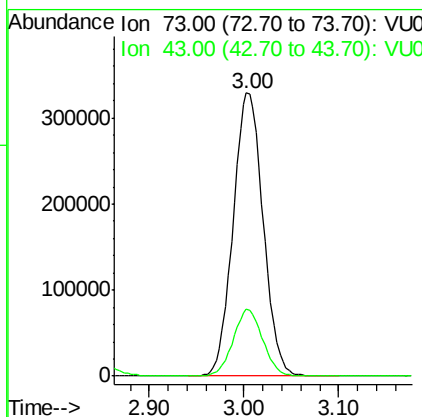
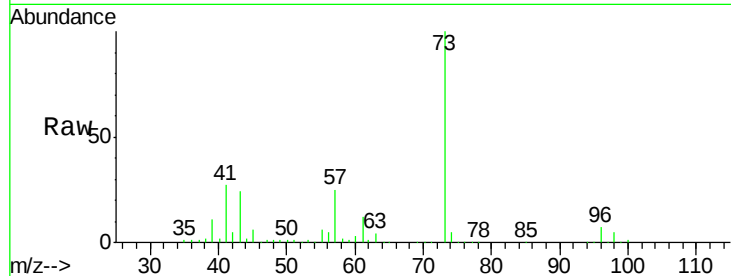
Methyl tert-Butyl Ether
Concen: 19.985 ug/l
RT: 3.00 min Scan# 569
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
73	100		
43	23.1	18.5	27.7

Manual Integrations
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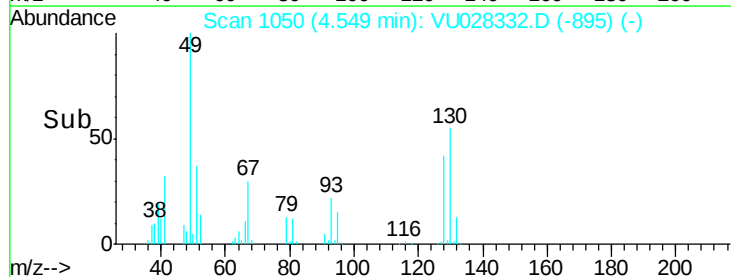
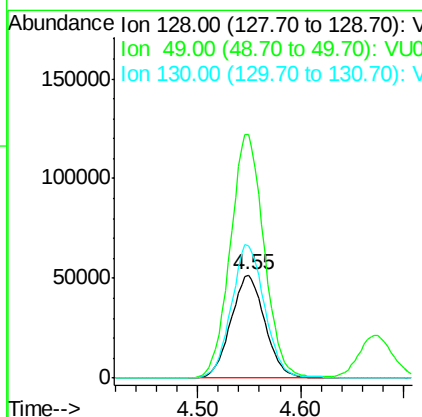
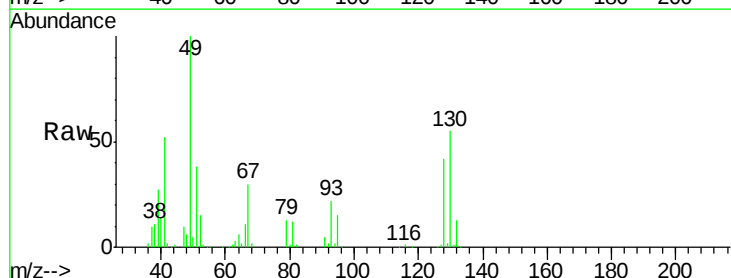
MMDadoda
11/30/2018 2:33:37 PM

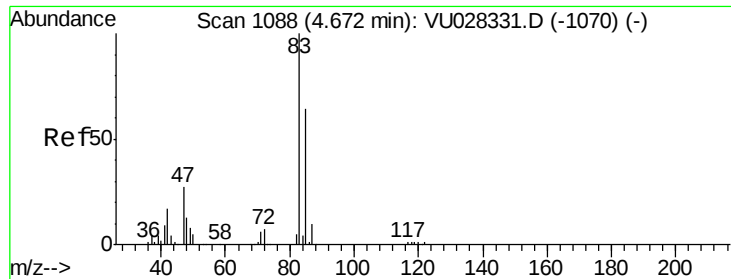


#26

Bromochloromethane
Concen: 19.459 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
128	100		
49	233.8	0.0	457.6
130	126.5	101.4	152.2





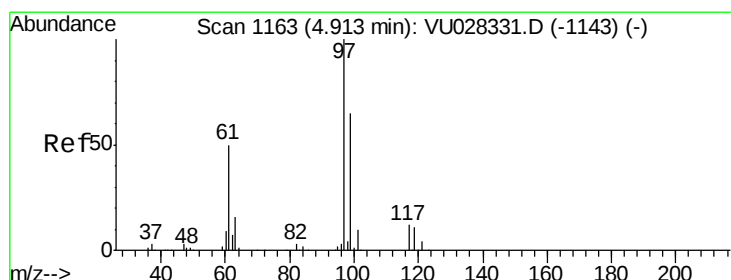
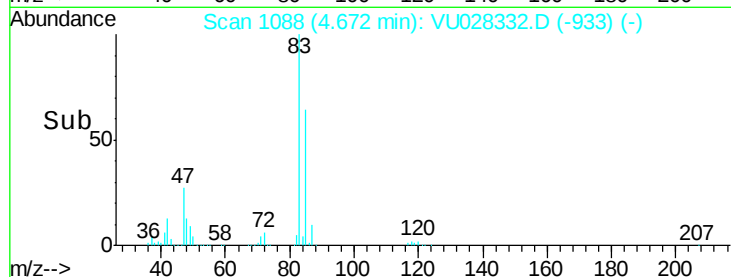
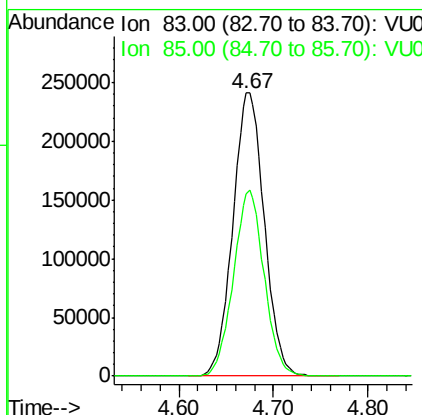
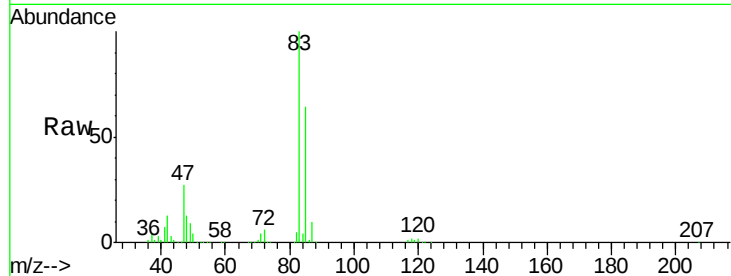
#27
Chloroform
Concen: 18.943 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	557122		
85	64.4	0.0	128.0	

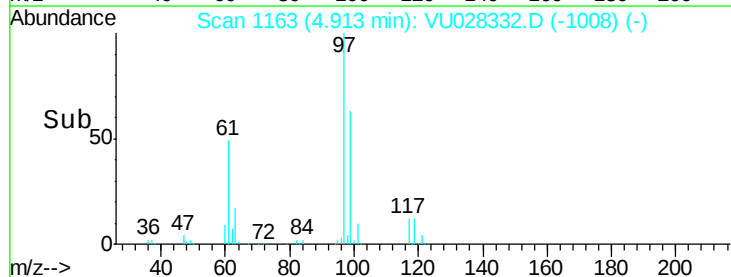
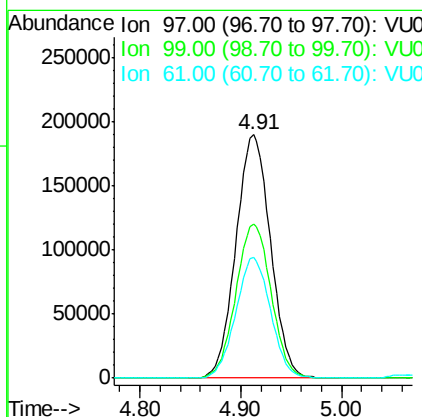
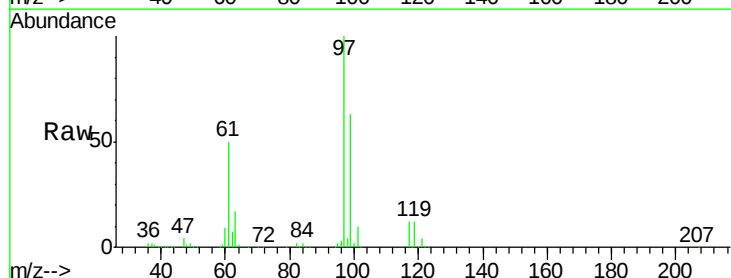
Manual Integrations
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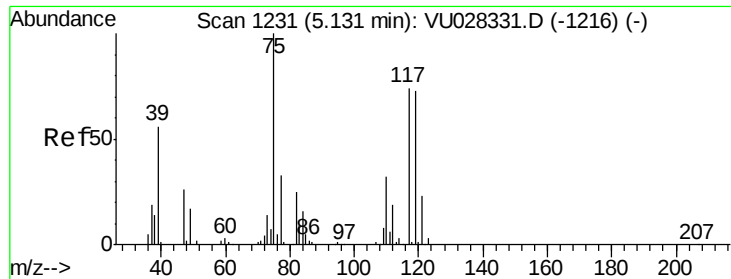
MMDadoda
11/30/2018 2:33:37 PM



#28
1,1,1-Trichloroethane
Concen: 19.733 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	453207		
99	64.5	32.2	96.6	
61	49.6	24.9	74.7	





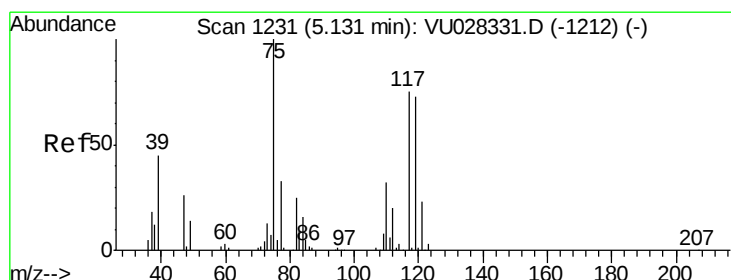
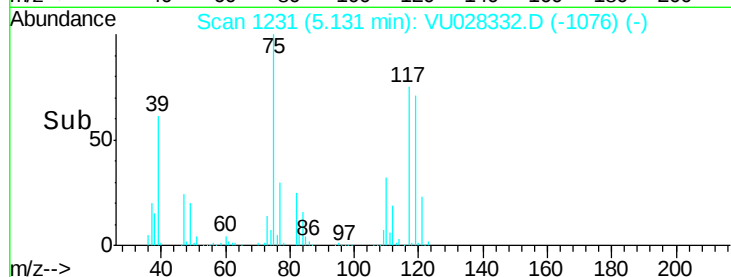
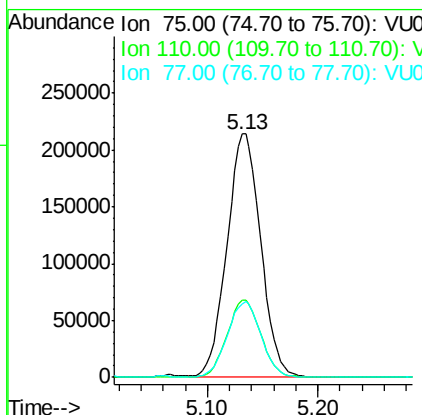
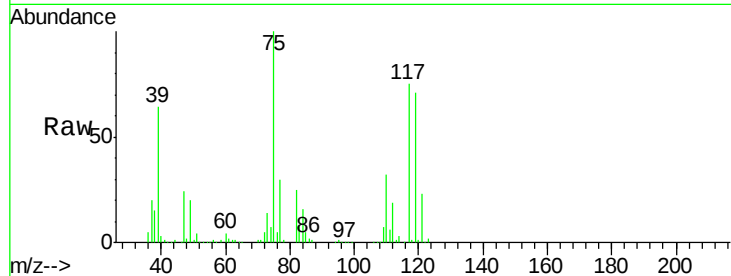
#29
 1,1-Dichloropropene
 Concen: 20.541 ug/l
 RT: 5.13 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.9	15.8	47.3
77	30.7	25.4	38.0

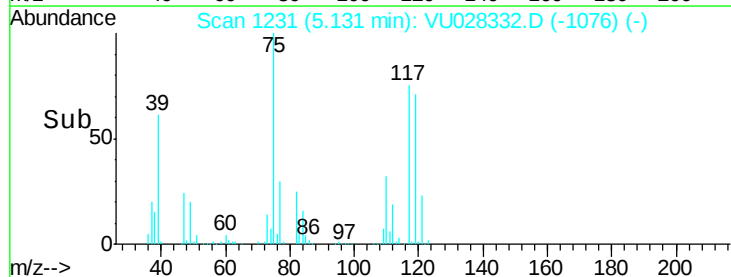
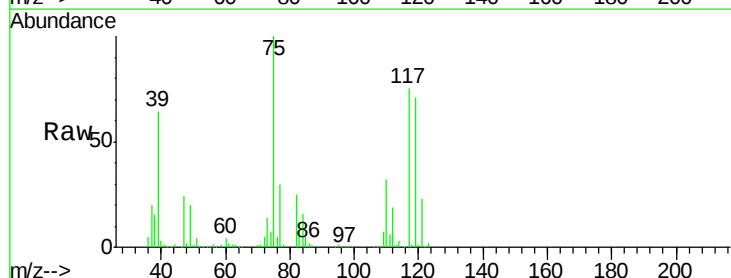
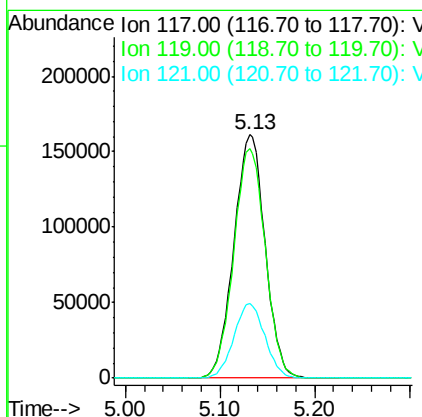
Manual Integrations
 APPROVED

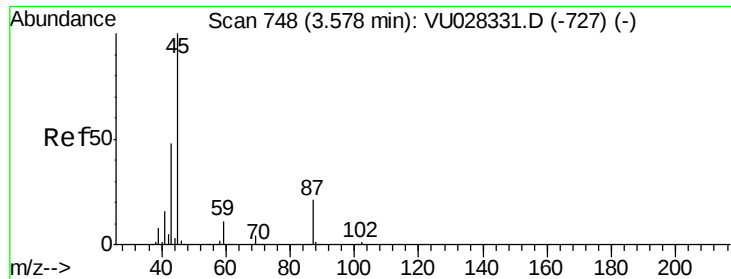
MMDadoda
 11/30/2018 2:33:37 PM



#30
 Carbon Tetrachloride
 Concen: 19.853 ug/l
 RT: 5.13 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.5	78.2	117.4
121	30.6	24.7	37.1





#31

Isopropyl Ether

Concen: 20.272 ug/l

RT: 3.58 min Scan# 748

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 45 Resp: 1107138

Ion Ratio Lower Upper

45 100

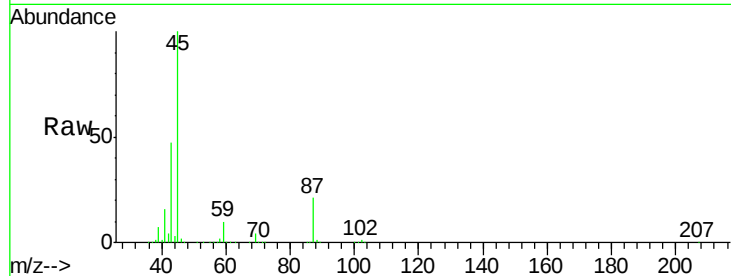
43 47.8 24.2 72.6

Manual Integrations

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Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

3.58

400000

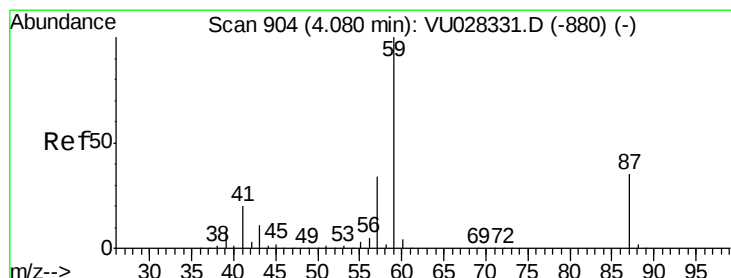
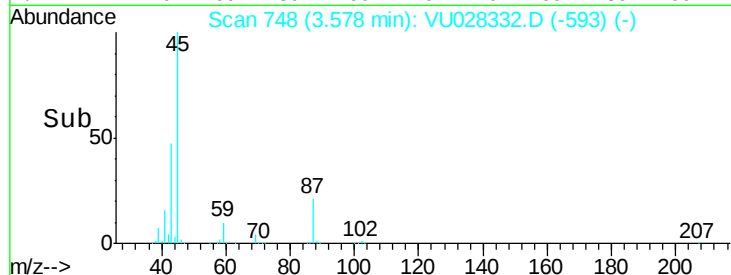
300000

200000

100000

0

Time-->



#32

Ethyl-t-butyl ether

Concen: 20.417 ug/l

RT: 4.08 min Scan# 903

Delta R.T. -0.00 min

Lab File: VU028332.D

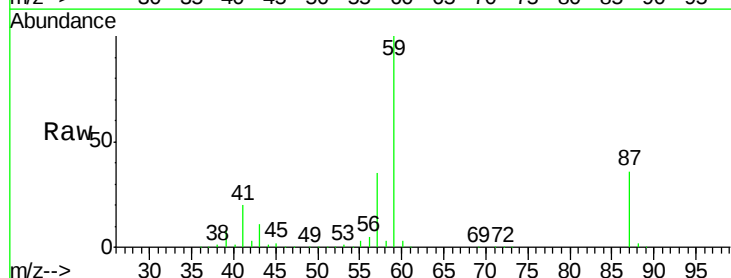
Acq: 26 Nov 2018 11:49

Tgt Ion: 59 Resp: 918374

Ion Ratio Lower Upper

59 100

87 35.6 28.2 42.4



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

4.08

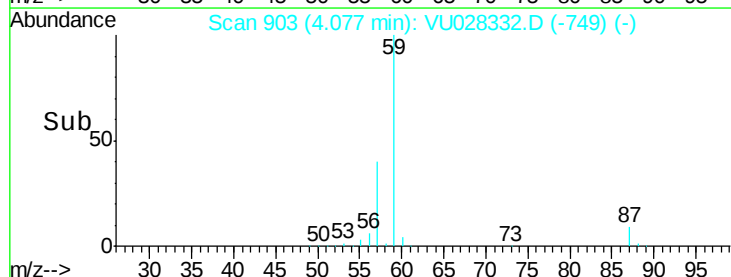
300000

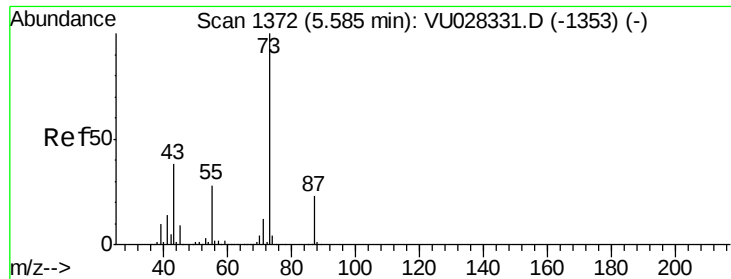
200000

100000

0

Time-->





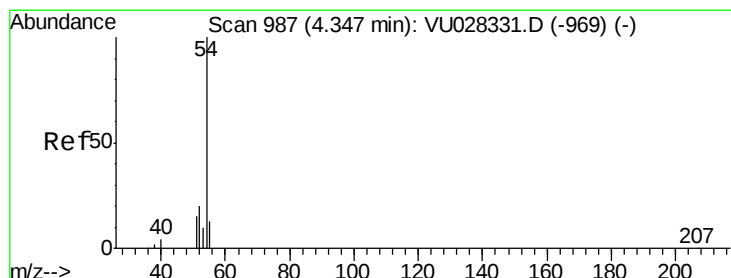
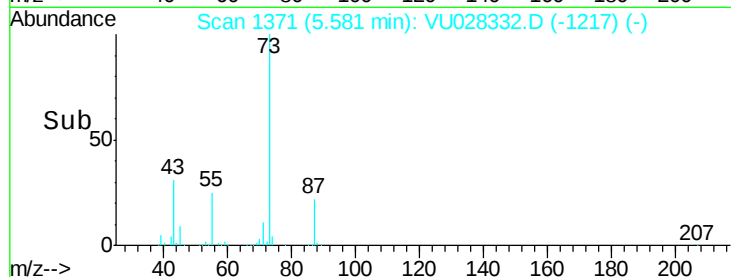
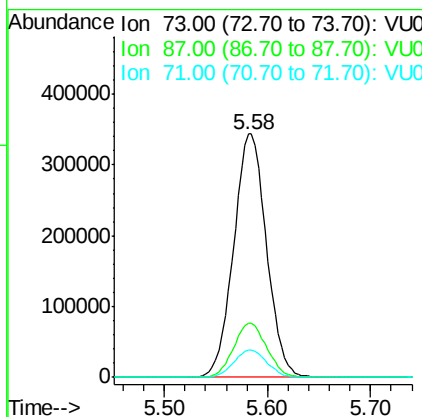
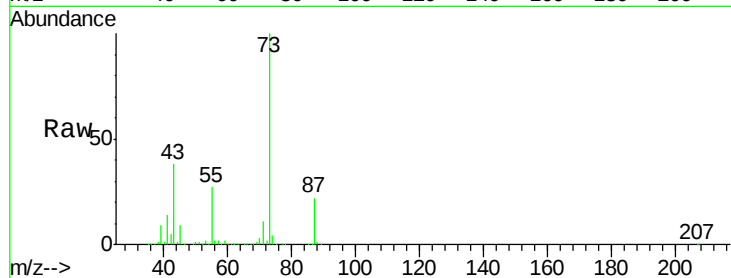
#33
Tert-Amyl methyl ether
Concen: 20.355 ug/l
RT: 5.58 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
73	100		
87	22.5	17.6	26.4
71	11.2	9.2	13.8

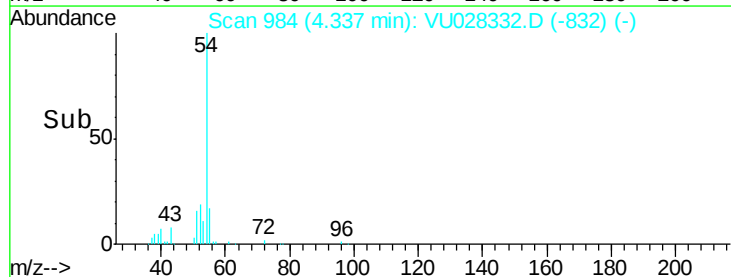
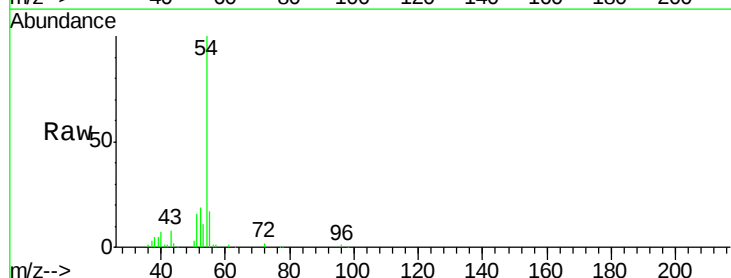
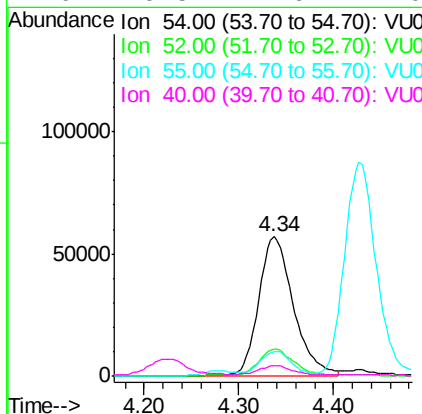
Manual Integrations
APPROVED

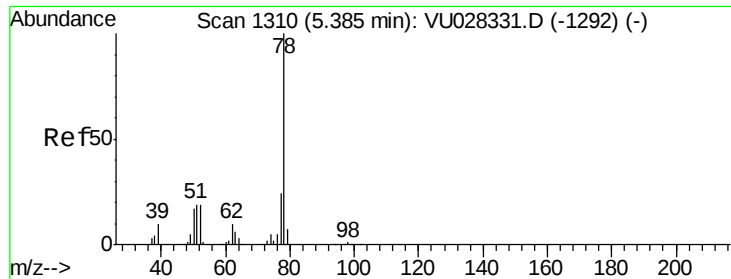
MMDadoda
11/30/2018 2:33:37 PM



#34
Propionitrile
Concen: 108.243 ug/l
RT: 4.34 min Scan# 984
Delta R.T. -0.01 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
54	100		
52	18.5	16.6	25.0
55	15.6	12.9	19.3
40	6.5	2.6	4.0#





#35

Benzene

Concen: 20.234 ug/l

RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 78 Resp: 1312400

Ion Ratio Lower Upper

78 100

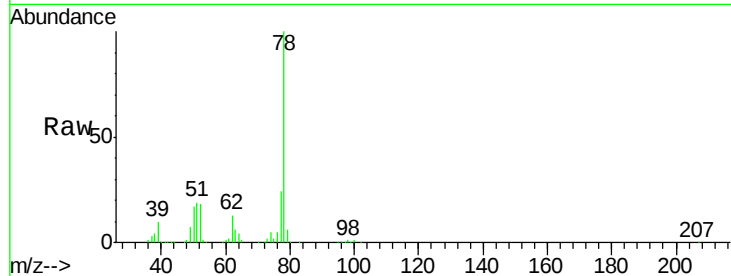
77 23.6 19.5 29.3

Manual Integrations

APPROVED

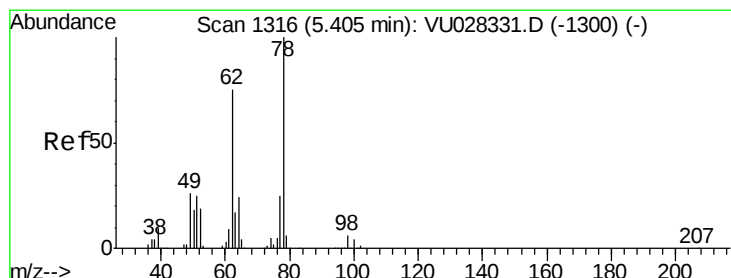
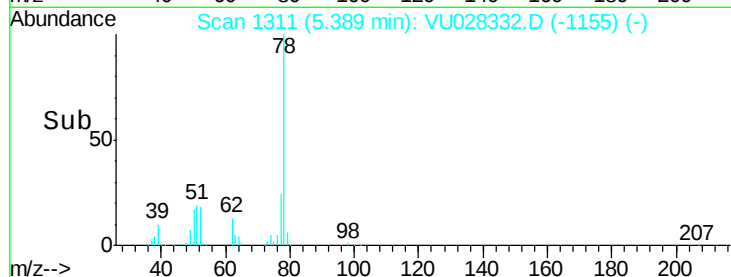
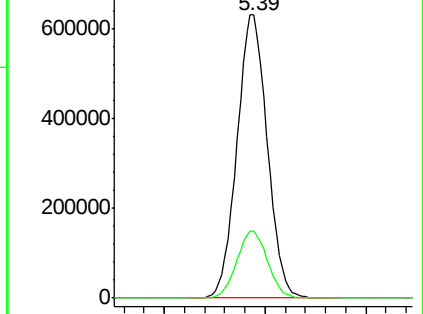
MMDadoda

11/30/2018 2:33:37 PM



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0



#36

1,2-Dichloroethane

Concen: 19.519 ug/l

RT: 5.40 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VU028332.D

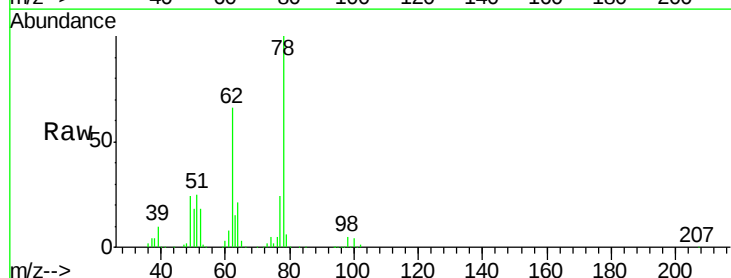
Acq: 26 Nov 2018 11:49

Tgt Ion: 62 Resp: 378667

Ion Ratio Lower Upper

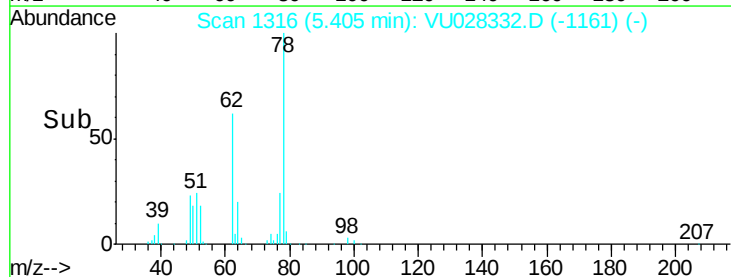
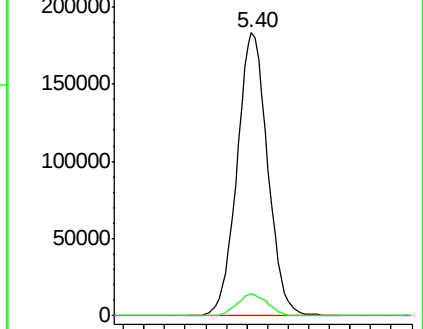
62 100

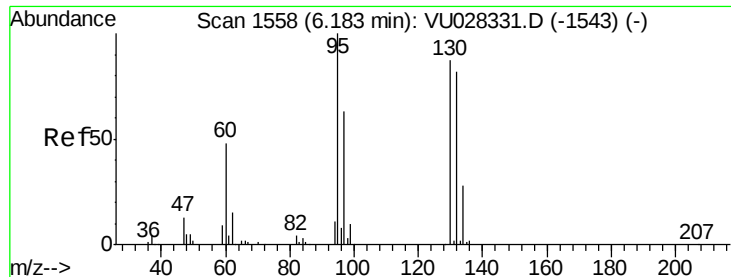
98 7.7 6.0 9.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

Trichloroethene

Concen: 20.592 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion:130 Resp: 290909

Ion Ratio Lower Upper

130 100

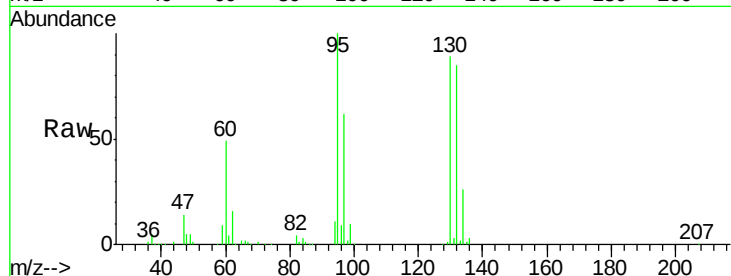
95 112.5 91.5 137.3

Manual Integrations

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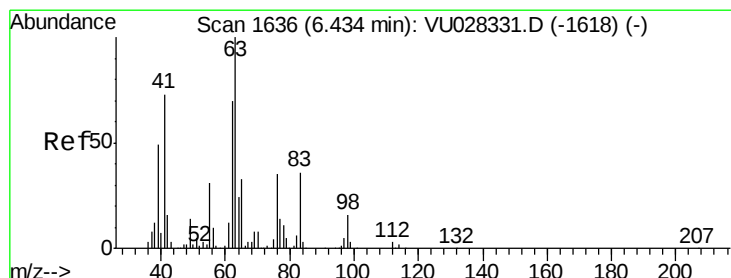
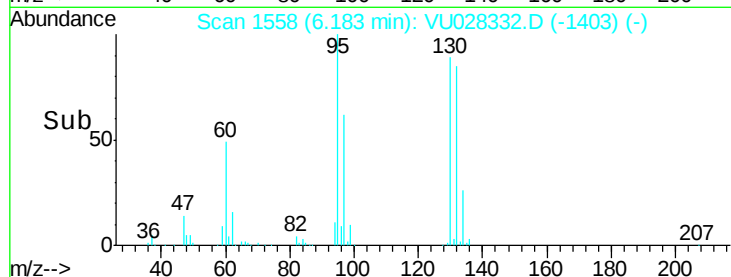
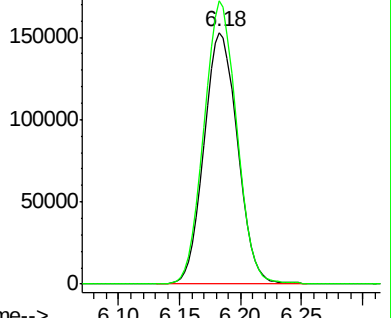
MMDadoda

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VU0



#38

1,2-Dichloropropane

Concen: 20.017 ug/l

RT: 6.43 min Scan# 1636

Delta R.T. -0.00 min

Lab File: VU028332.D

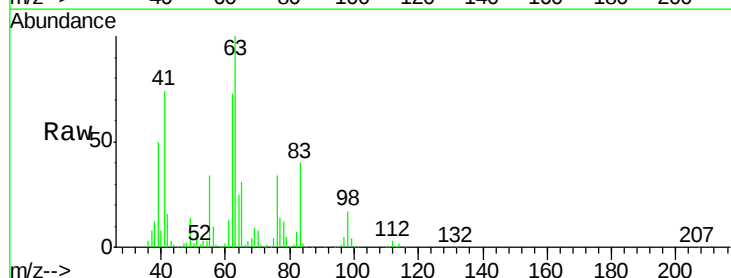
Acq: 26 Nov 2018 11:49

Tgt Ion: 63 Resp: 370260

Ion Ratio Lower Upper

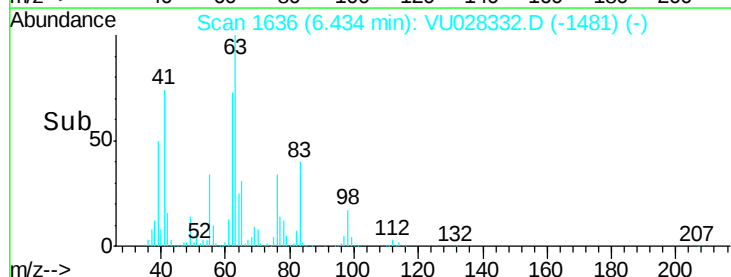
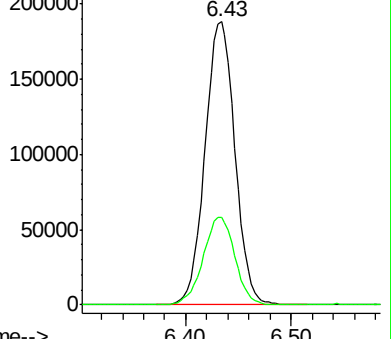
63 100

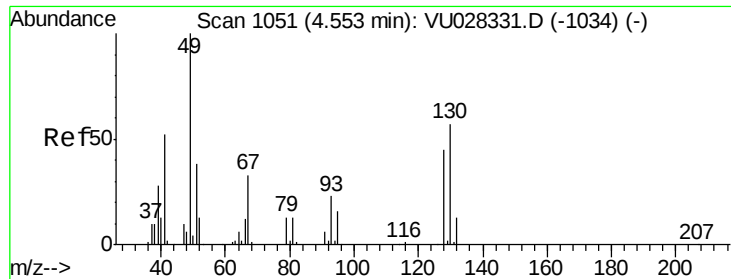
65 30.9 26.2 39.4



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0





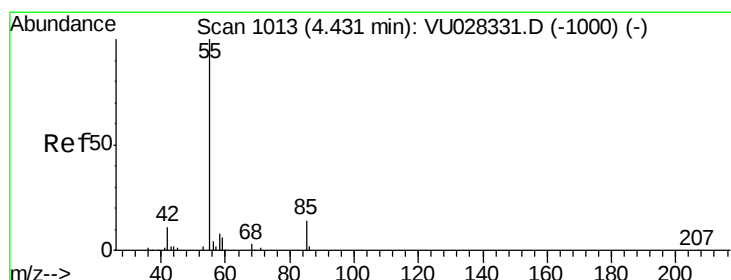
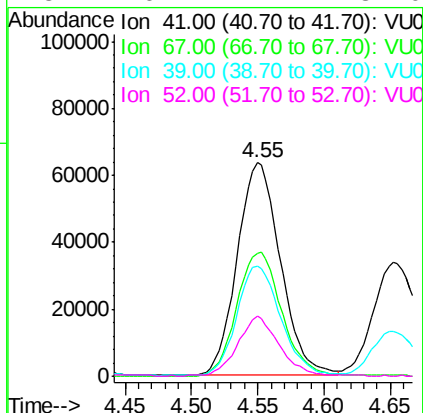
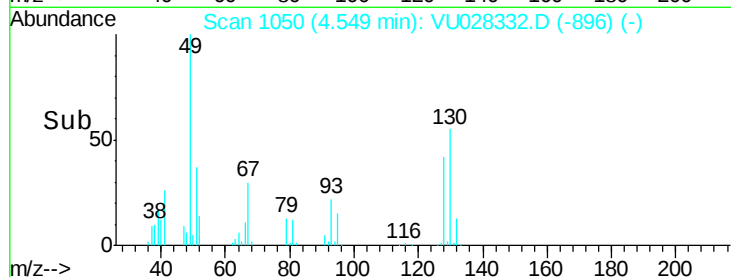
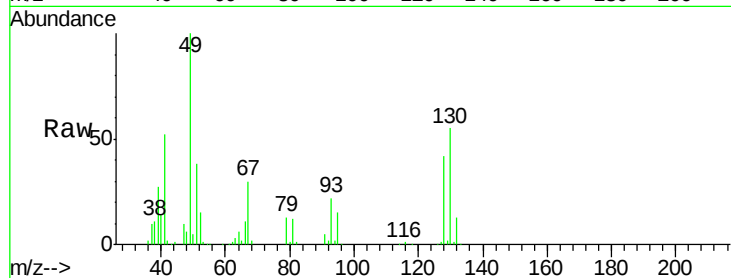
#39
Methacrylonitrile
Concen: 19.935 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
41	100		
67	60.7	48.2	72.4
39	52.3	42.9	64.3
52	26.7	21.4	32.0

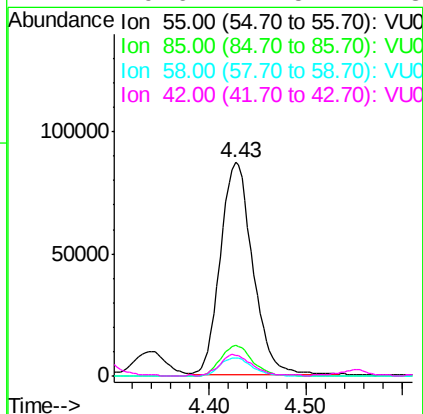
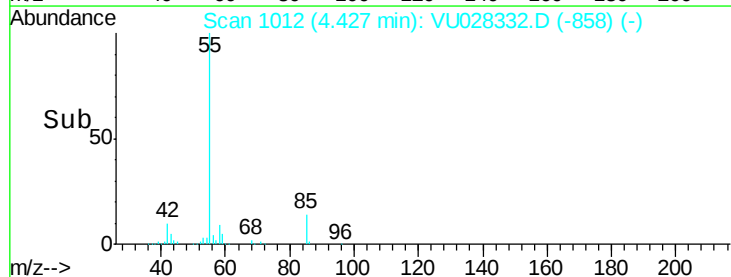
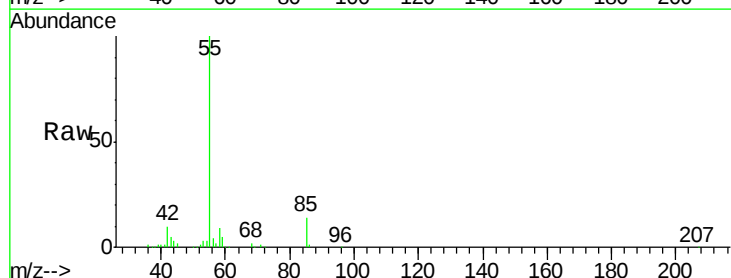
Manual Integrations
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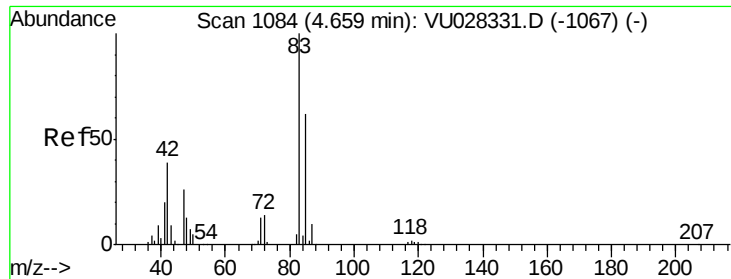
MMDadoda
11/30/2018 2:33:37 PM



#40
Methyl acrylate
Concen: 20.322 ug/l
RT: 4.43 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
55	100		
85	14.1	10.9	16.3
58	8.5	6.4	9.6
42	9.6	7.5	11.3





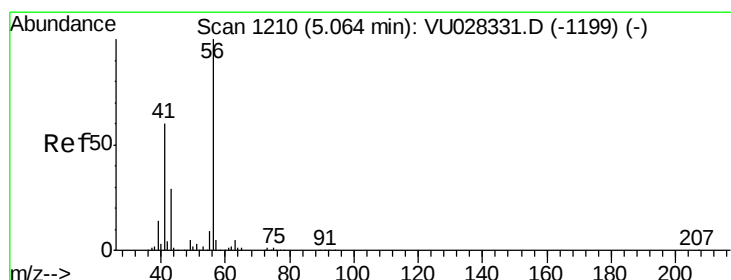
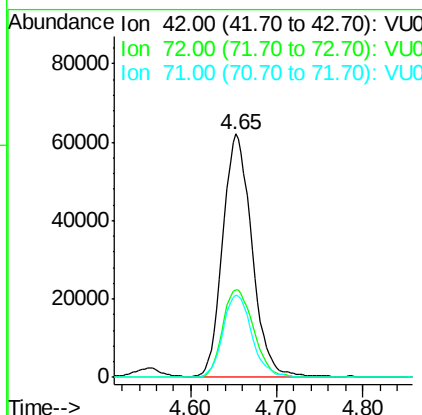
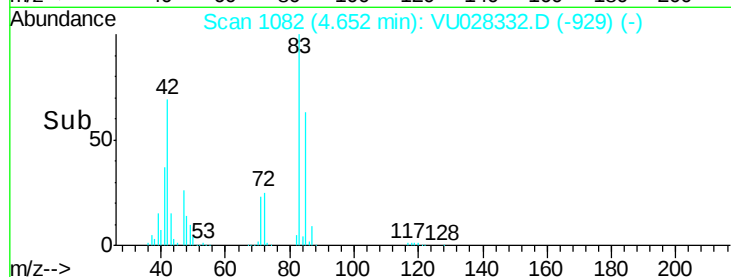
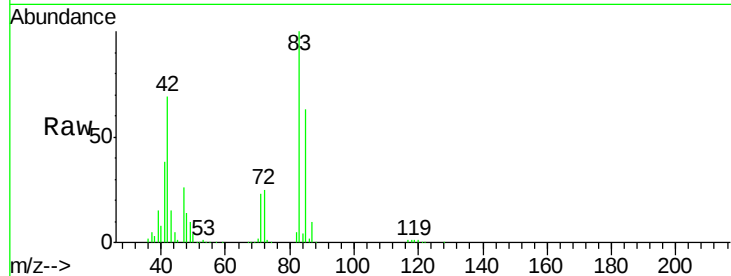
#41
Tetrahydrofuran
Concen: 40.040 ug/l
RT: 4.65 min Scan# 1082
Delta R.T. -0.01 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
42	100		
72	38.3	29.8	44.6
71	33.6	25.9	38.9

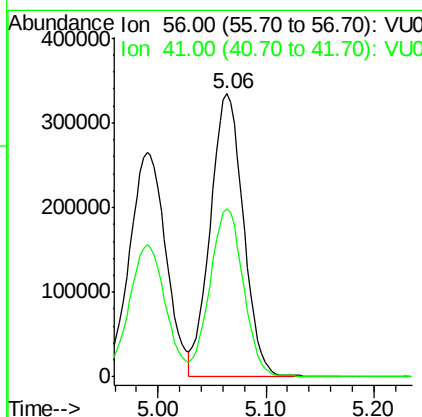
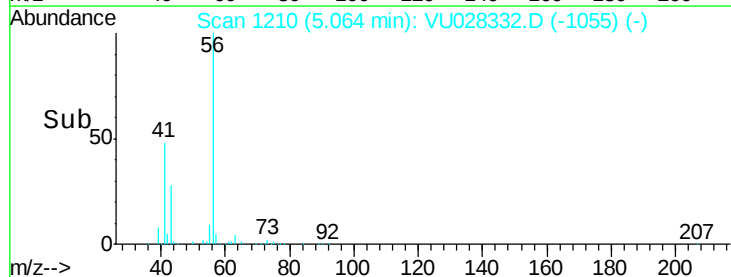
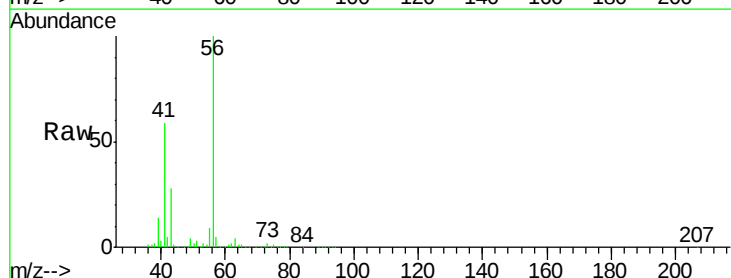
Manual Integrations
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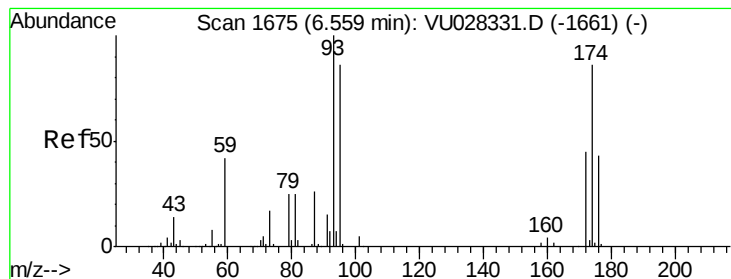
MMDadoda
11/30/2018 2:33:37 PM



#42
1-Chlorobutane
Concen: 20.286 ug/l
RT: 5.06 min Scan# 1210
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
56	100		
41	59.4	29.8	89.3





#43

Dibromomethane

Concen: 20.304 ug/l

RT: 6.56 min Scan# 1675

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

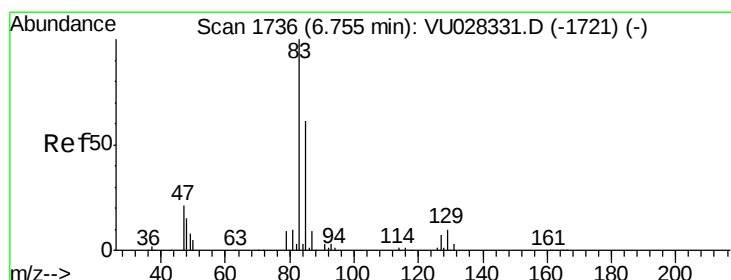
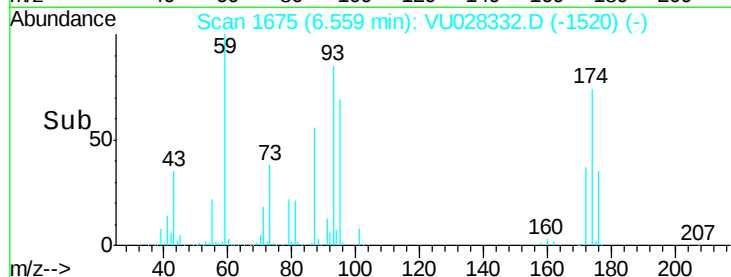
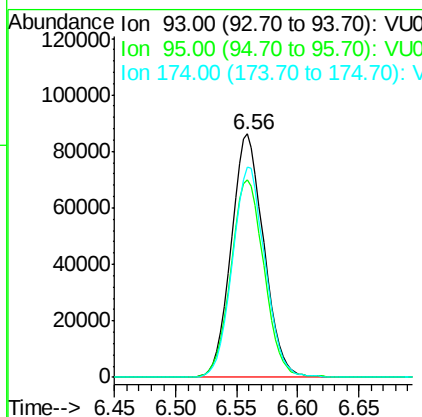
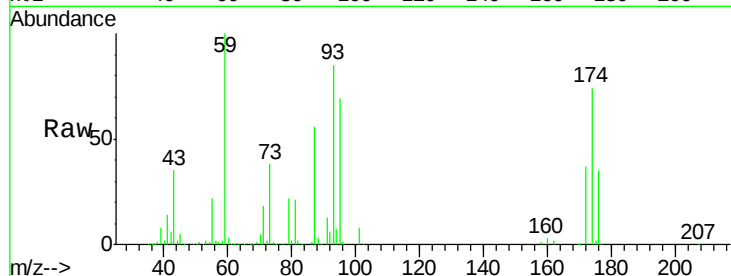
ClientSampleId :

VSTDIC020

Tgt Ion:	93	Resp:	159879
Ion Ratio	Lower	Upper	
93	100		
95	82.8	66.6	99.8
174	86.6	69.4	104.2

Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:37 PM



#44

Bromodichloromethane

Concen: 20.001 ug/l

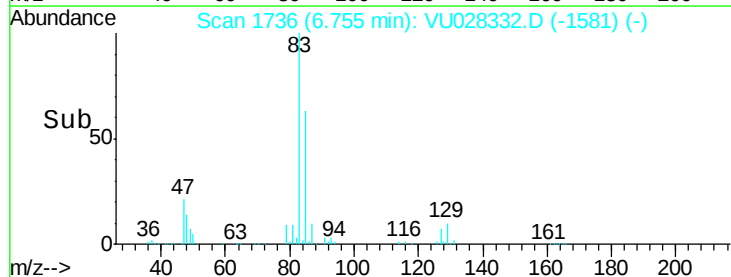
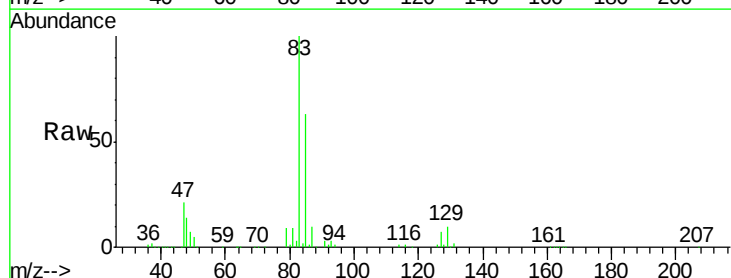
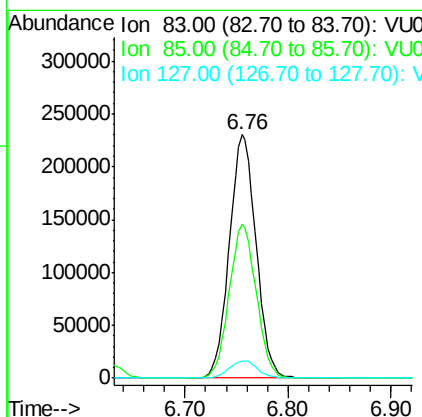
RT: 6.76 min Scan# 1736

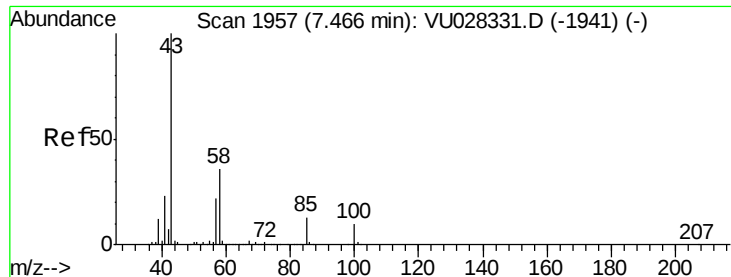
Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Tgt Ion:	83	Resp:	415861
Ion Ratio	Lower	Upper	
83	100		
85	63.5	49.0	73.6
127	7.1	5.7	8.5





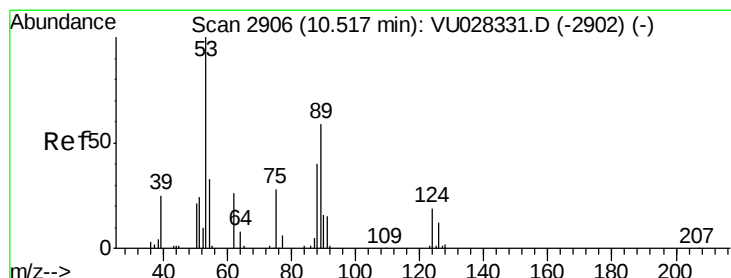
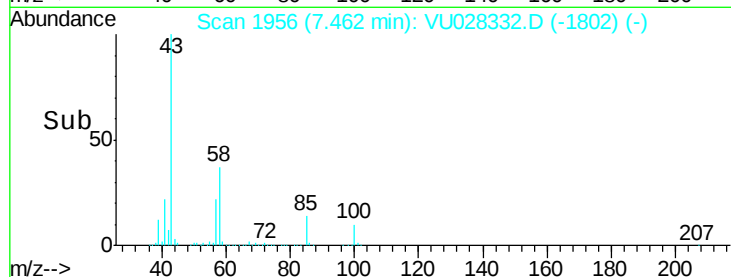
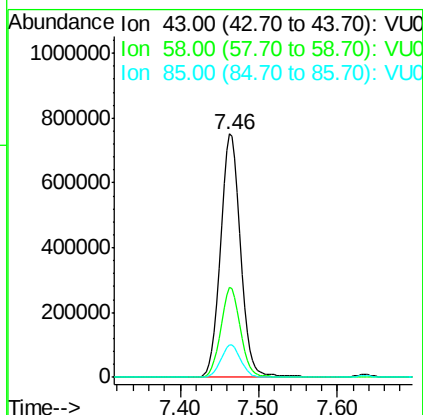
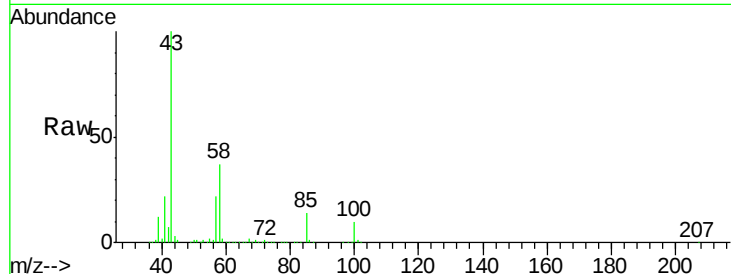
#45
4-Methyl-2-Pentanone
Concen: 104.047 ug/l
RT: 7.46 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 1315966
Ion Ratio Lower Upper
43 100
58 36.4 17.9 53.7
85 13.3 10.8 16.2

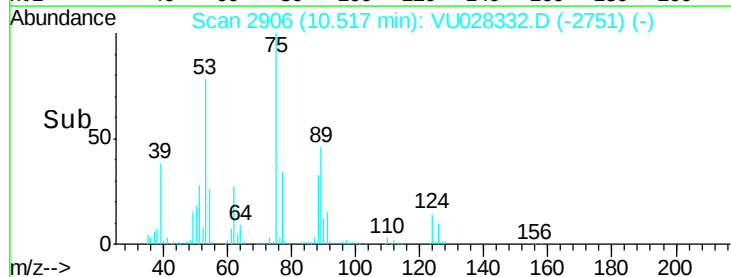
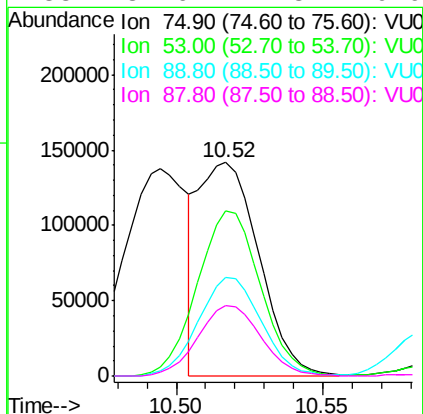
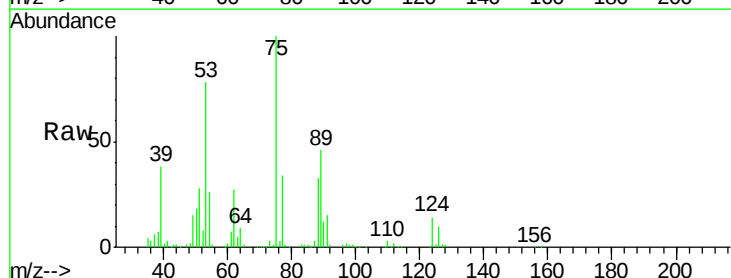
Manual Integrations
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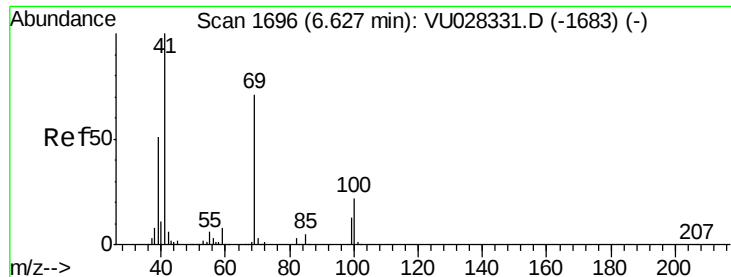
MMDadoda
11/30/2018 2:33:37 PM



#46
t-1,4-Dichloro-2-butene
Concen: 44.756 ug/l m
RT: 10.52 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion: 75 Resp: 202964
Ion Ratio Lower Upper
75 100
53 81.4 65.0 97.6
89 48.4 38.6 58.0
88 34.6 27.3 40.9





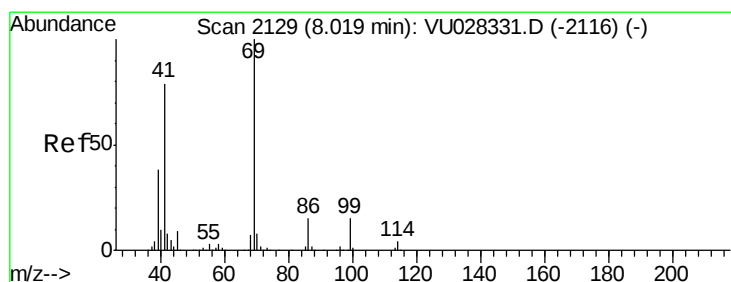
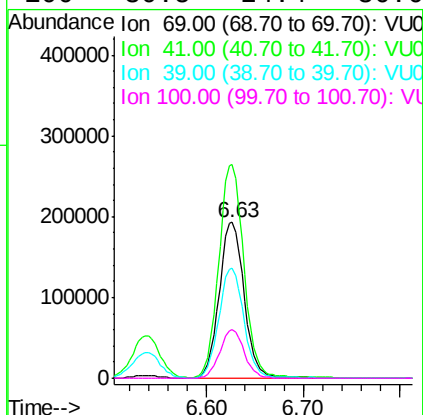
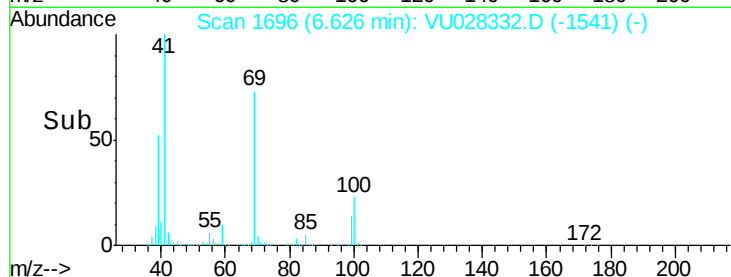
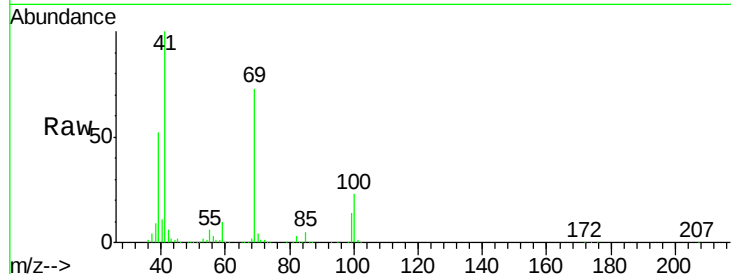
#47
Methyl methacrylate
Concen: 43.032 ug/l
RT: 6.63 min Scan# 1696
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	345860		
41	136.4	0.0	277.2	
39	70.2	57.6	86.4	
100	30.5	24.4	36.6	

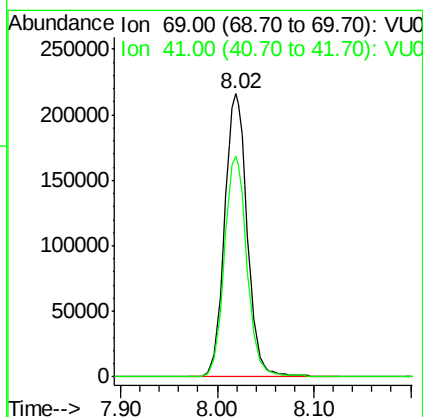
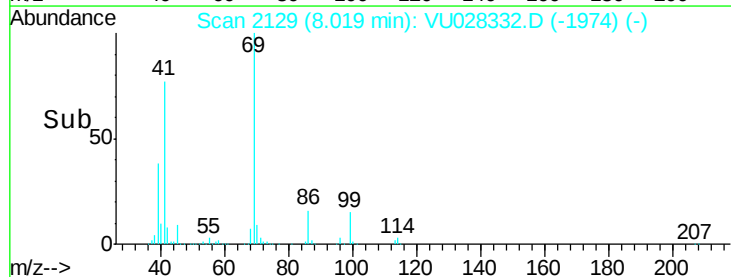
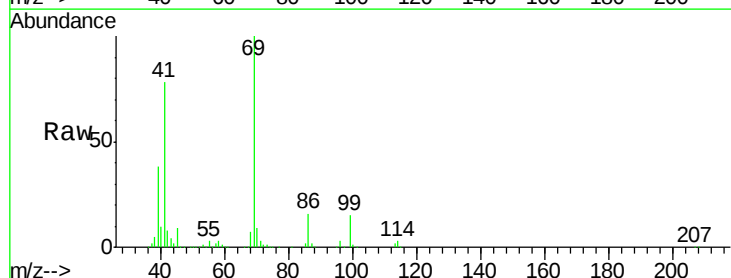
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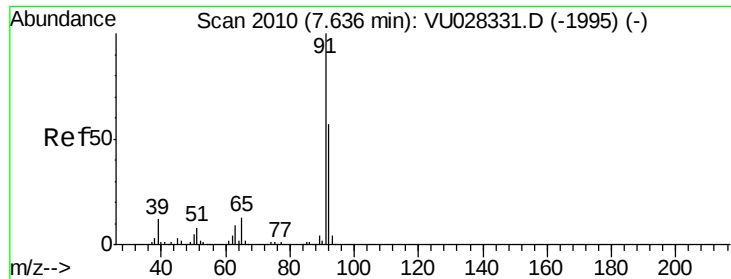
MMDadoda
11/30/2018 2:33:37 PM



#48
Ethyl methacrylate
Concen: 21.779 ug/l
RT: 8.02 min Scan# 2129
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	350150		
41	77.6	39.4	118.2	





#49

Toluene

Concen: 21.106 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 92 Resp: 760263

Ion Ratio Lower Upper

92 100

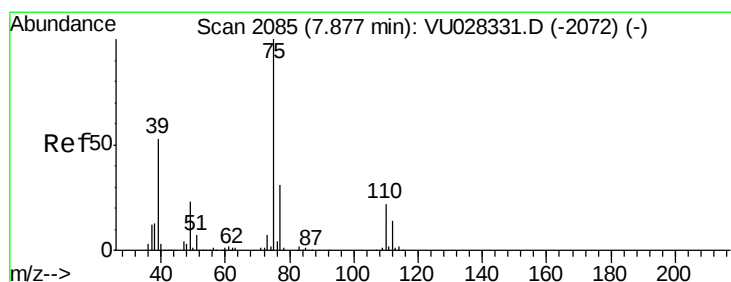
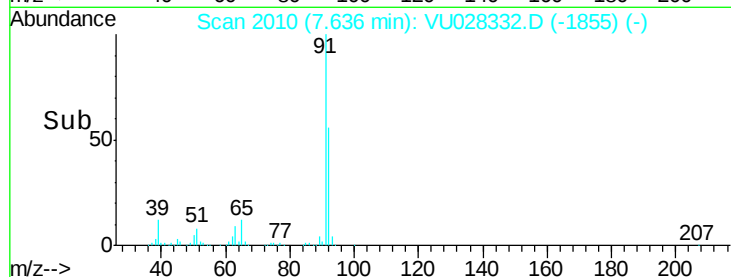
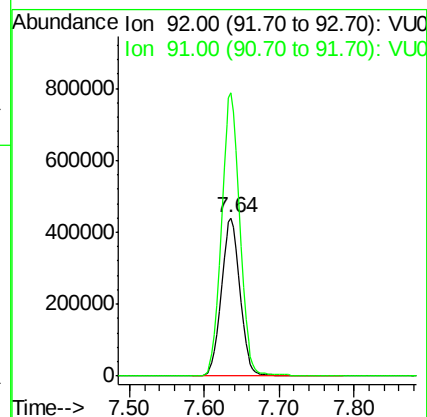
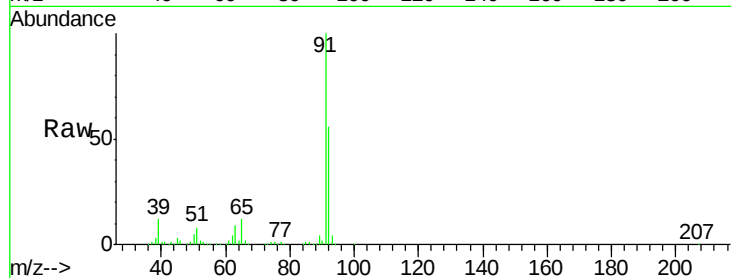
91 176.7 141.5 212.3

Manual Integrations

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#50

t-1,3-Dichloropropene

Concen: 20.917 ug/l

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028332.D

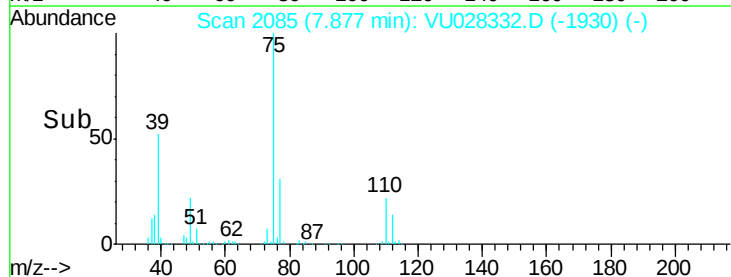
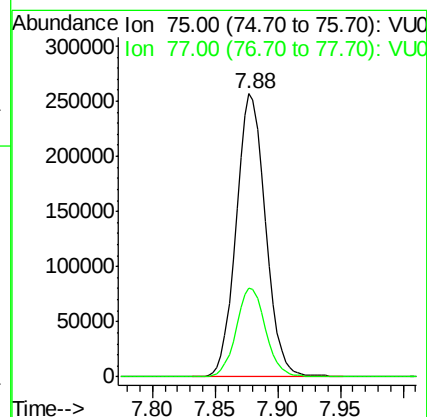
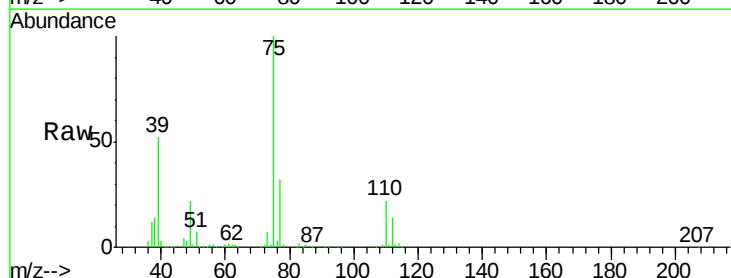
Acq: 26 Nov 2018 11:49

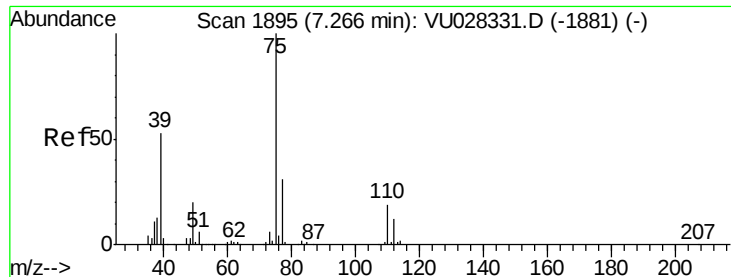
Tgt Ion: 75 Resp: 417731

Ion Ratio Lower Upper

75 100

77 31.5 24.7 37.1





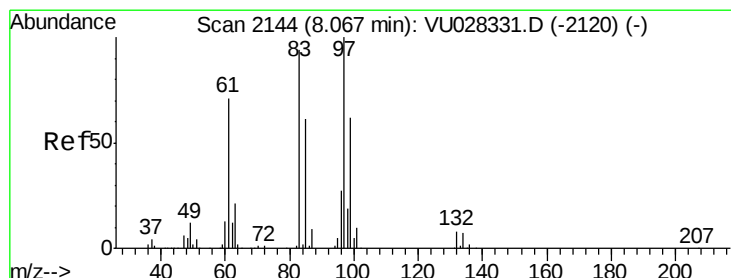
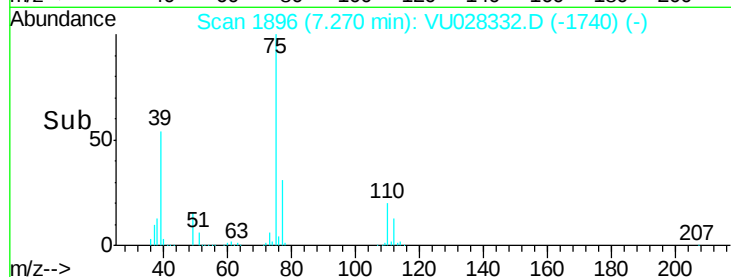
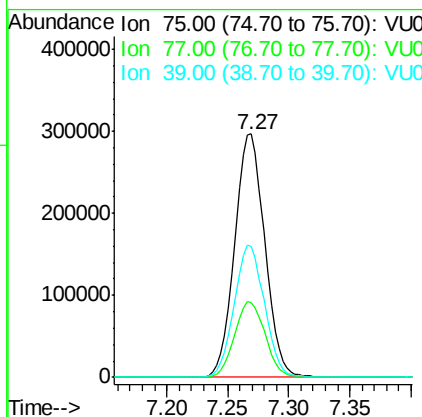
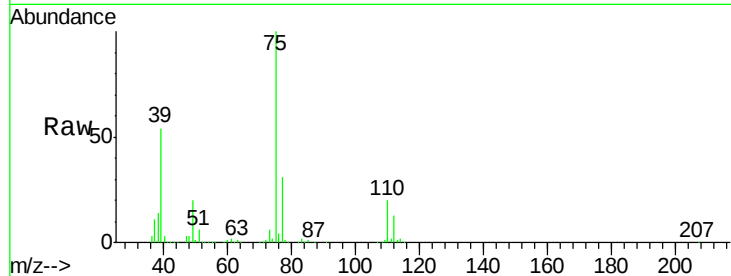
#51
 cis-1,3-Dichloropropene
 Concen: 20.631 ug/l
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion:	75	Resp:	508765
Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.4	36.6
39	54.0	42.8	64.2

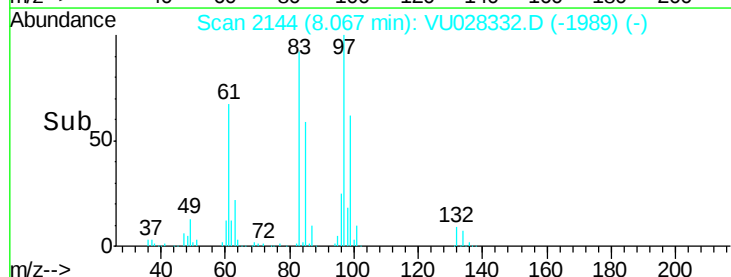
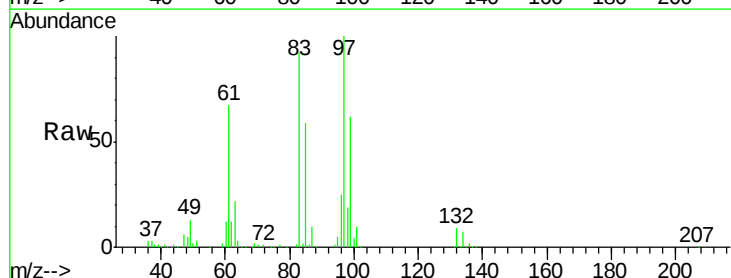
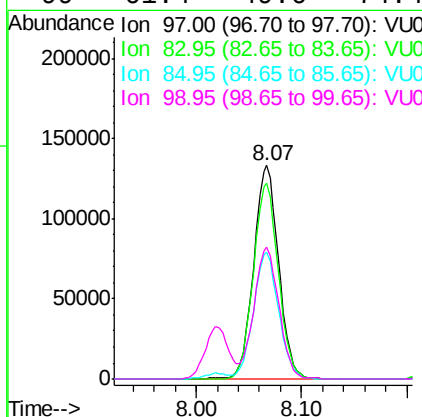
Manual Integrations
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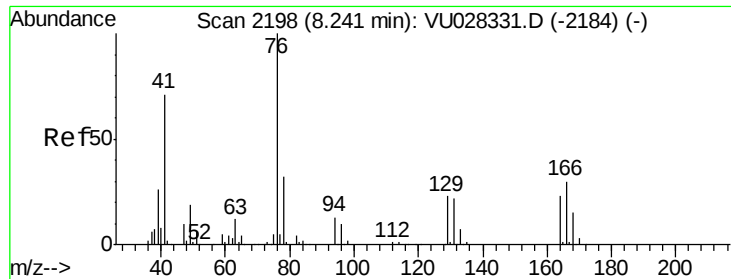
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#52
 1,1,2-Trichloroethane
 Concen: 19.949 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion:	97	Resp:	220529
Ion	Ratio	Lower	Upper
97	100		
83	92.0	75.1	112.7
85	59.0	48.7	73.1
99	61.4	49.6	74.4





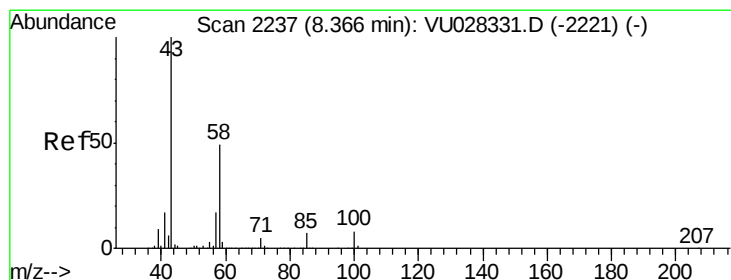
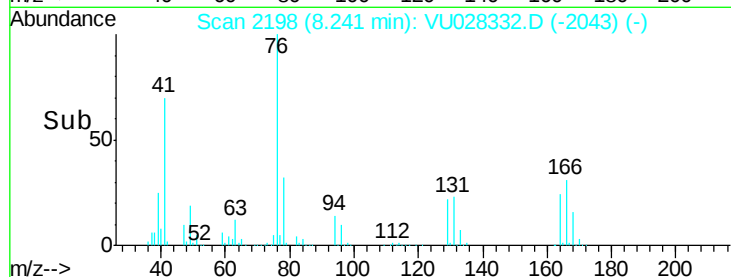
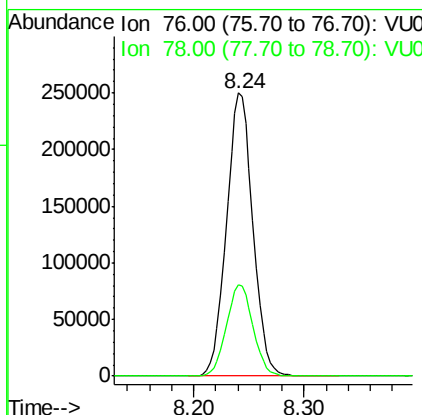
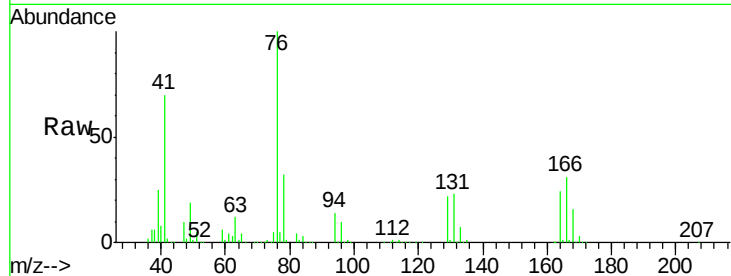
#53
 1,3-Dichloropropane
 Concen: 20.077 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion: 76 Resp: 414586
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.4 38.0

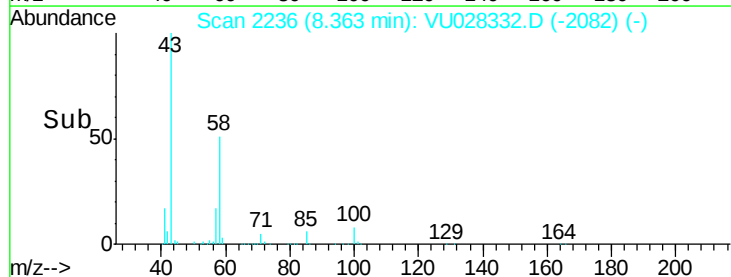
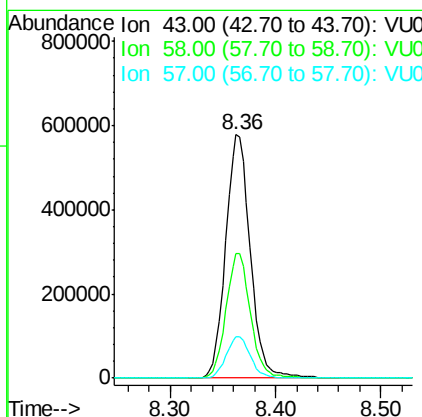
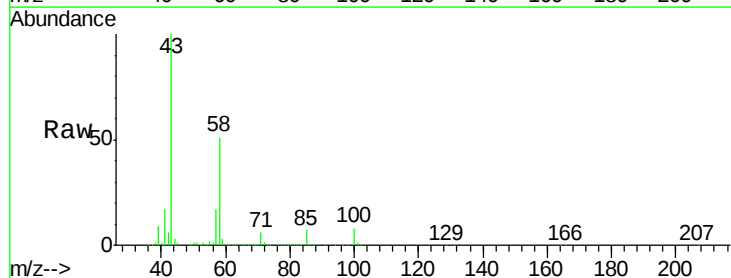
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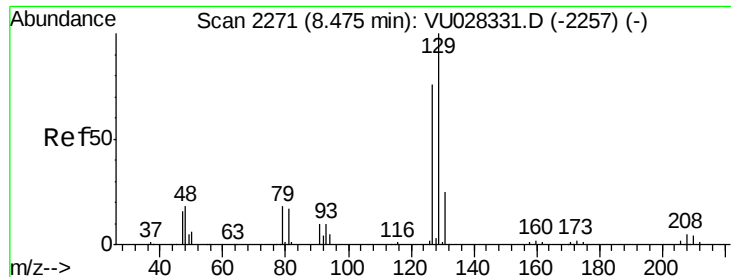
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 11/30/2018 2:33:37 PM



#54
 2-Hexanone
 Concen: 102.388 ug/l
 RT: 8.36 min Scan# 2236
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion: 43 Resp: 931577
 Ion Ratio Lower Upper
 43 100
 58 50.8 29.3 69.3
 57 16.9 0.0 36.8





#55

Dibromochloromethane

Concen: 20.957 ug/l

RT: 8.48 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion:129 Resp: 246434

Ion Ratio Lower Upper

129 100

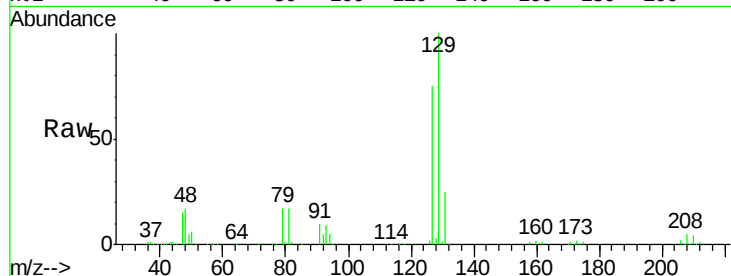
127 76.8 61.0 91.4

Manual Integrations

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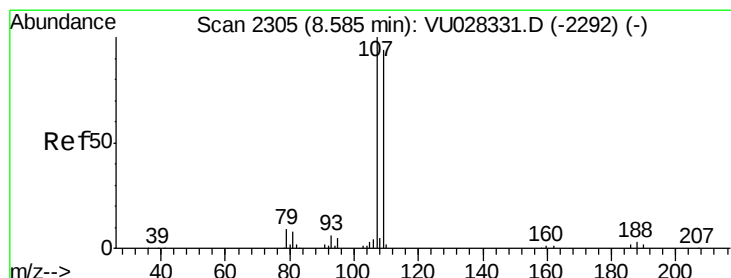
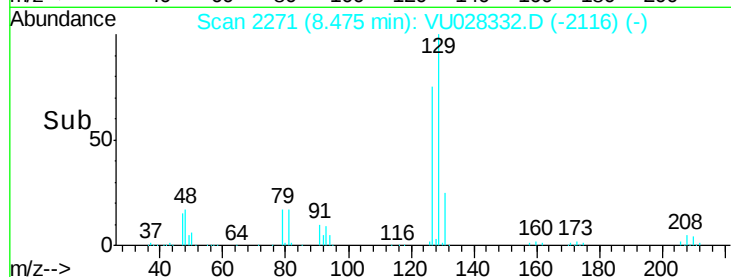
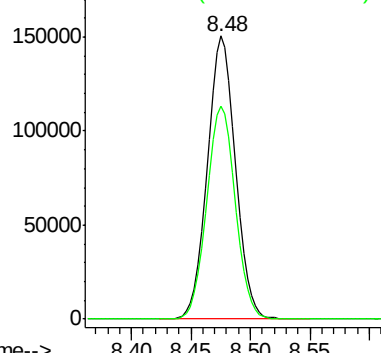
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 20.163 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU028332.D

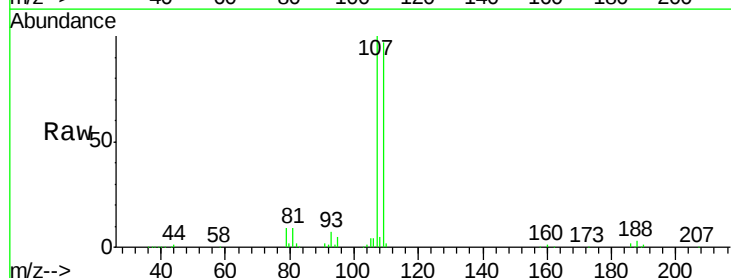
Acq: 26 Nov 2018 11:49

Tgt Ion:107 Resp: 203038

Ion Ratio Lower Upper

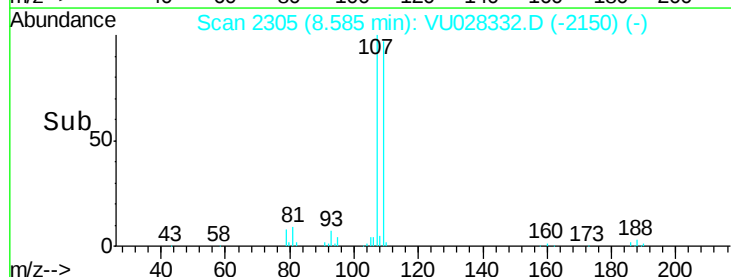
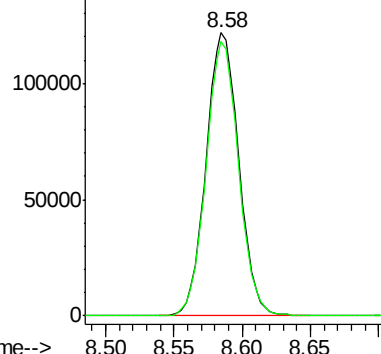
107 100

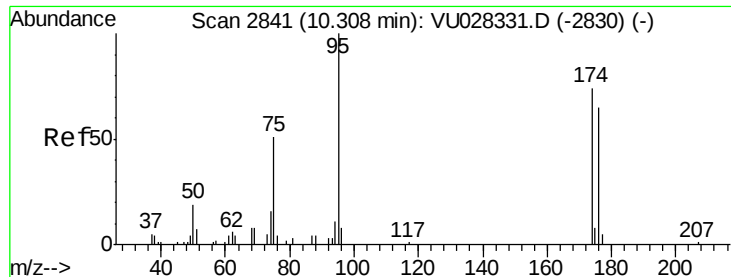
109 96.2 0.0 187.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#57

4-Bromofluorobenzene

Concen: 20.163 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

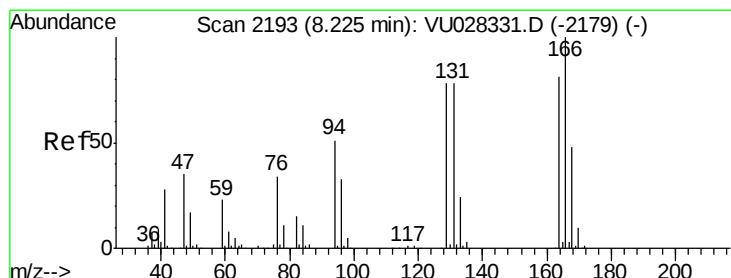
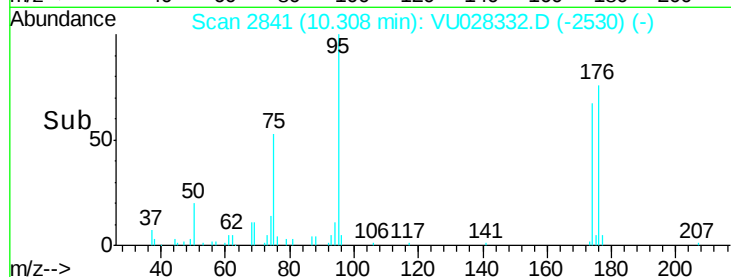
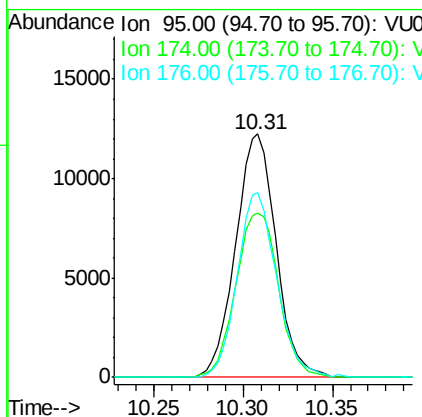
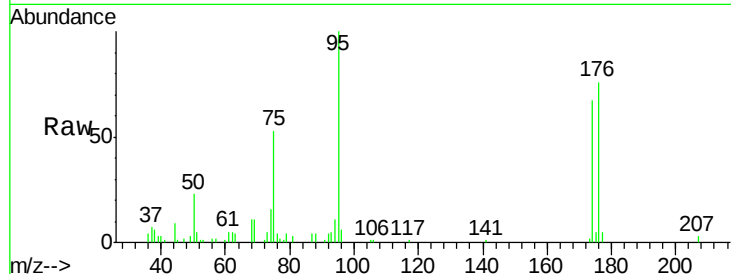
ClientSampleId :

VSTDIC020

Tgt Ion:	95	Resp:	19347
Ion Ratio	Lower	Upper	
95	100		
174	71.2	59.3	88.9
176	73.9	54.3	81.5

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#58

Tetrachloroethene

Concen: 20.112 ug/l

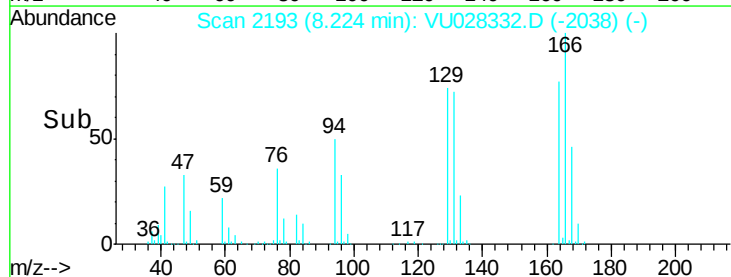
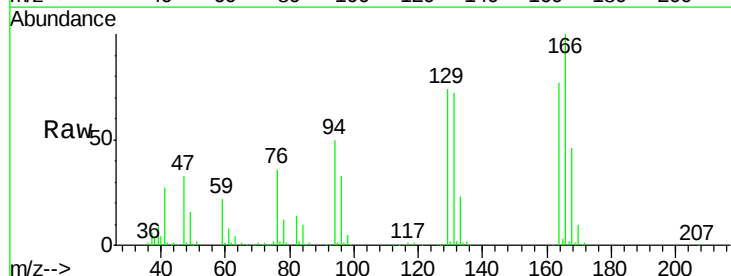
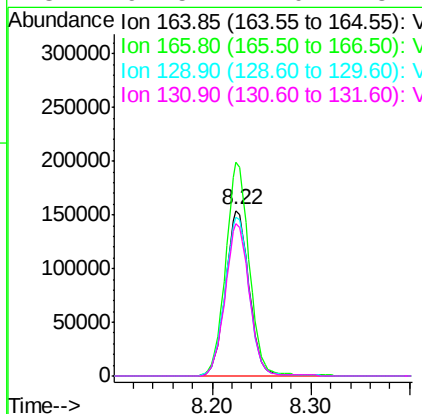
RT: 8.22 min Scan# 2193

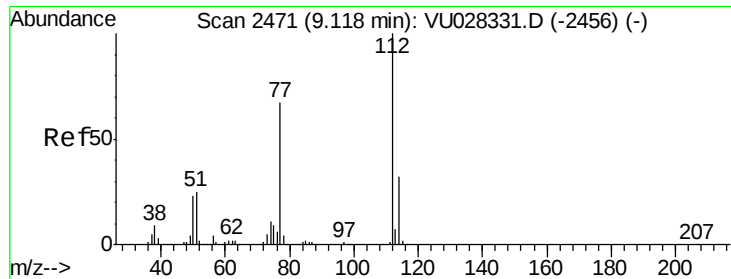
Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Tgt Ion:	164	Resp:	260146
Ion Ratio	Lower	Upper	
164	100		
166	129.3	98.6	148.0
129	96.0	77.0	115.4
131	92.5	77.0	115.4





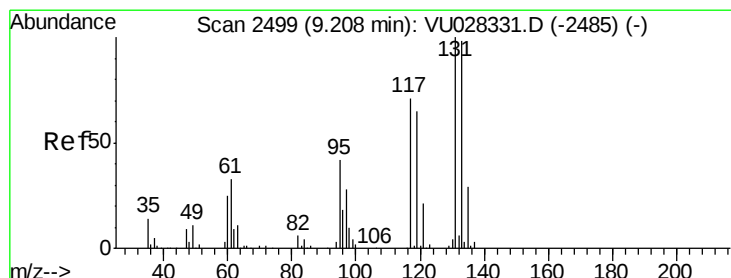
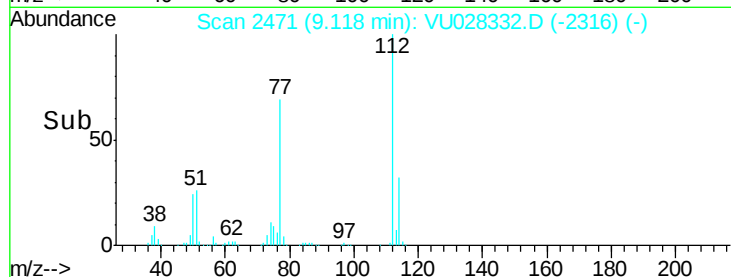
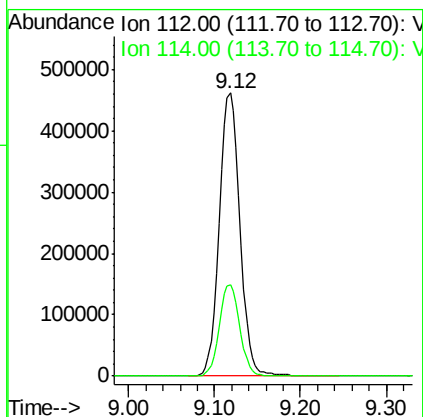
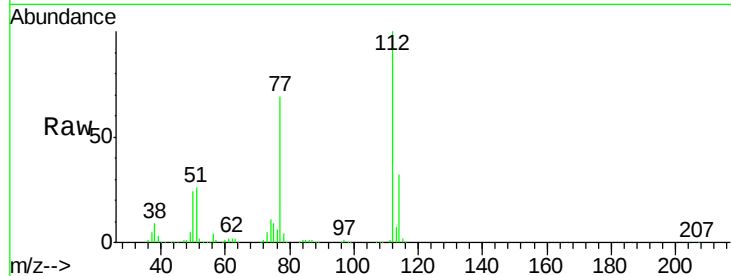
#59
Chlorobenzene
Concen: 20.578 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion:112 Resp: 771337
Ion Ratio Lower Upper
112 100
114 32.1 25.2 37.8

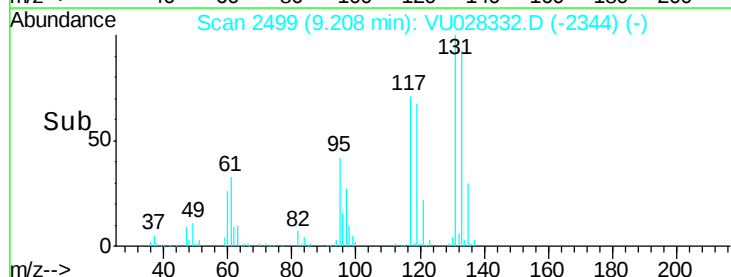
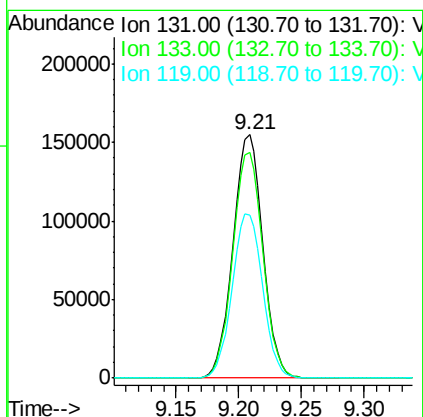
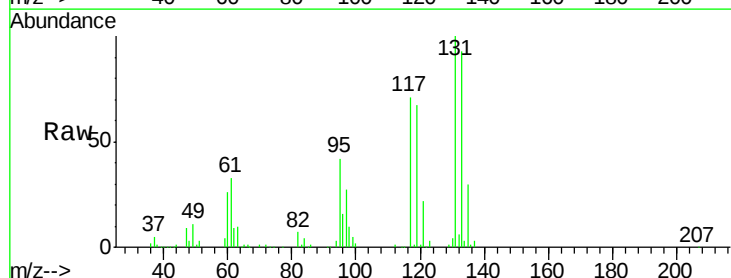
Manual Integrations
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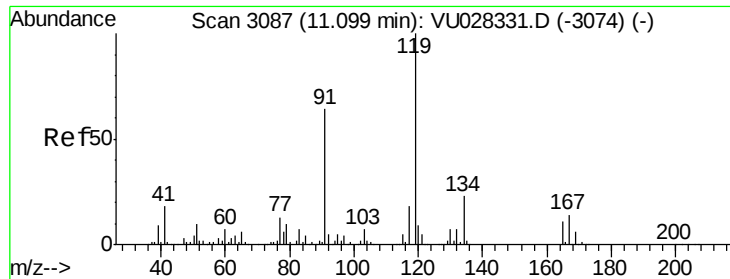
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#60
1,1,1,2-Tetrachloroethane
Concen: 20.161 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion:131 Resp: 256098
Ion Ratio Lower Upper
131 100
133 94.1 77.7 116.5
119 68.8 54.3 81.5





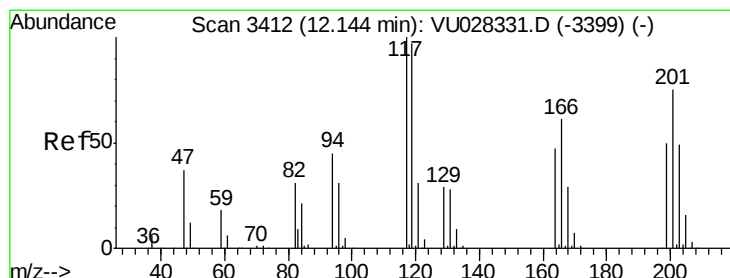
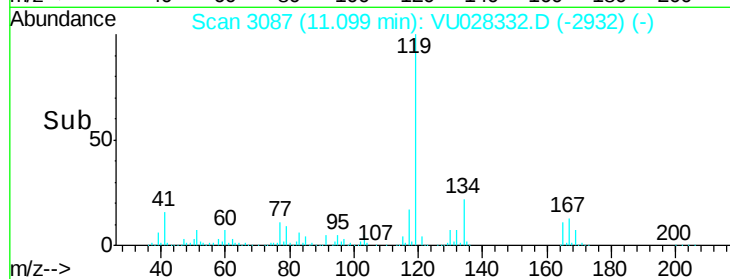
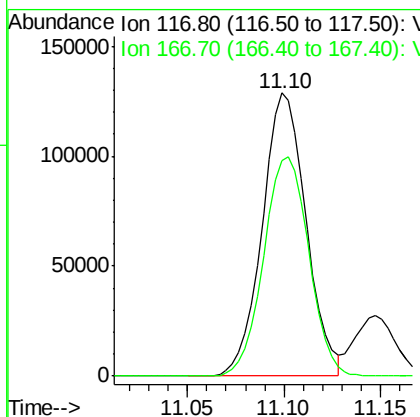
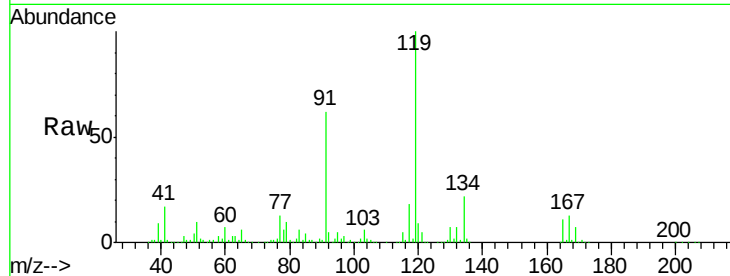
#61
 Pentachloroethane
 Concen: 20.514 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion:117 Resp: 202780
 Ion Ratio Lower Upper
 117 100
 167 79.9 64.2 96.2

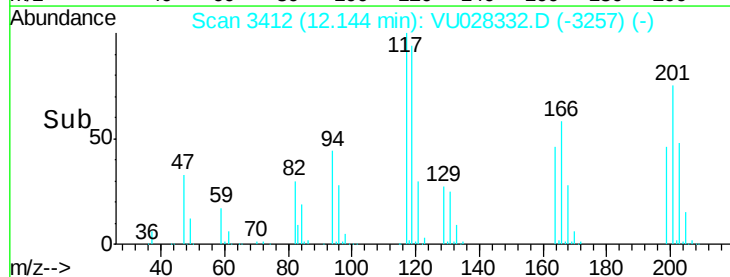
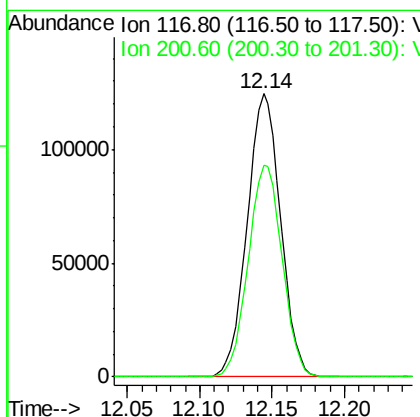
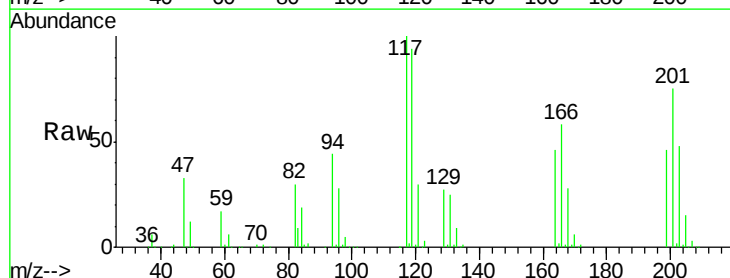
Manual Integrations
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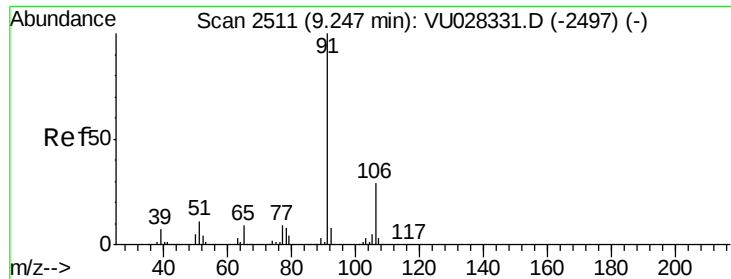
MMDadoda
 11/30/2018 2:33:37 PM



#62
 Hexachloroethane
 Concen: 21.568 ug/l
 RT: 12.14 min Scan# 3412
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion:117 Resp: 199787
 Ion Ratio Lower Upper
 117 100
 201 76.1 59.4 89.2





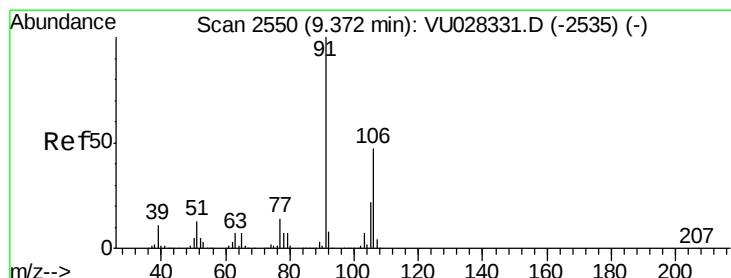
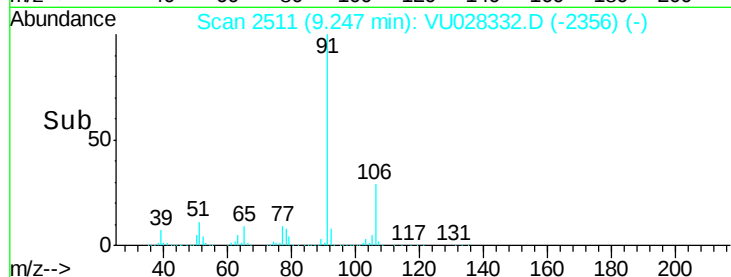
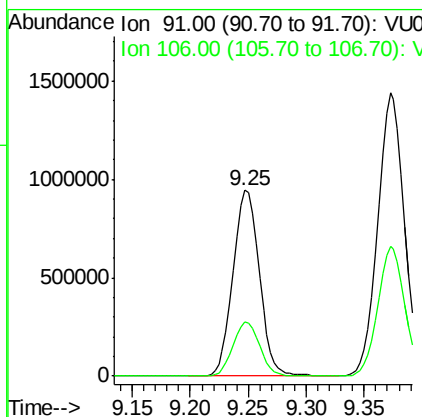
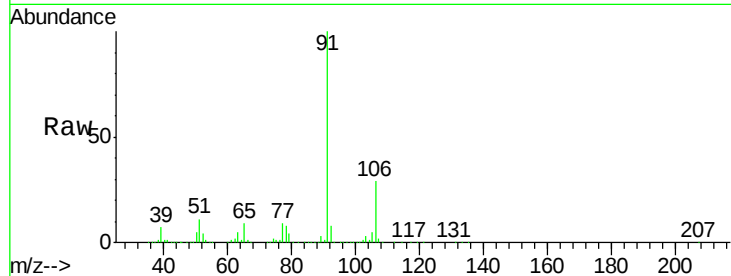
#63
Ethyl Benzene
Concen: 21.555 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion: 91 Resp: 1490830
Ion Ratio Lower Upper
91 100
106 28.9 23.4 35.2

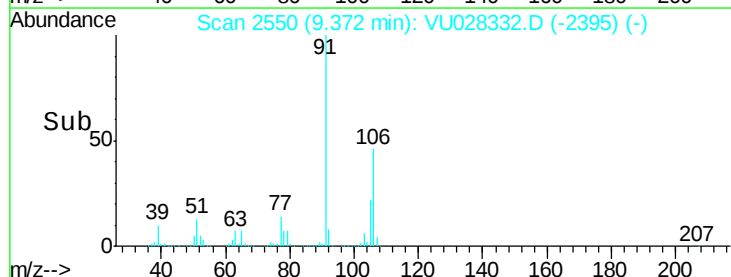
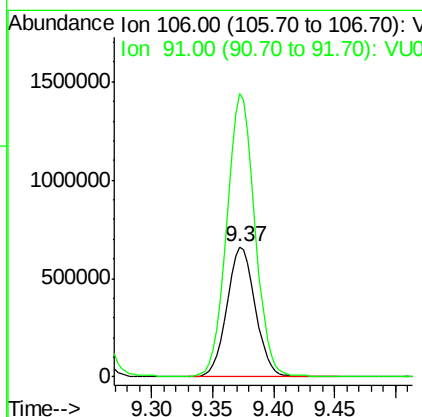
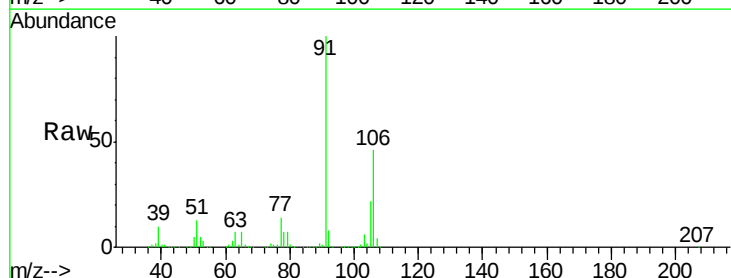
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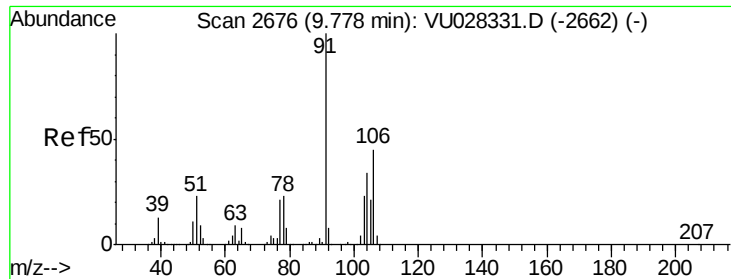
MMDadoda
11/30/2018 2:33:37 PM



#64
m/p-Xylenes
Concen: 42.857 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion: 106 Resp: 1072708
Ion Ratio Lower Upper
106 100
91 216.6 170.6 256.0





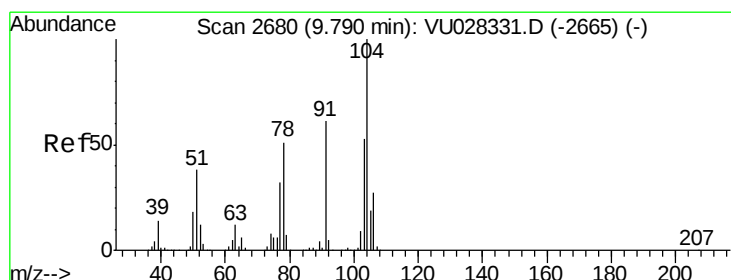
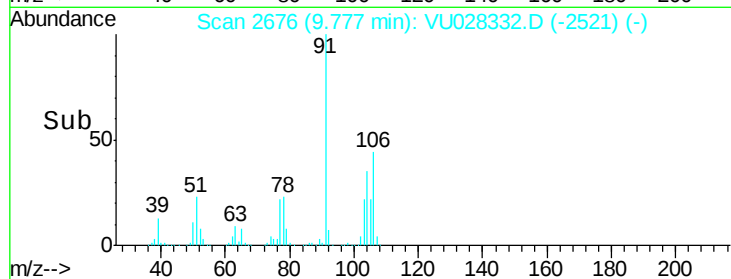
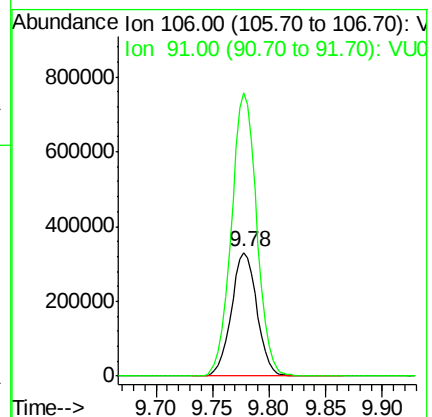
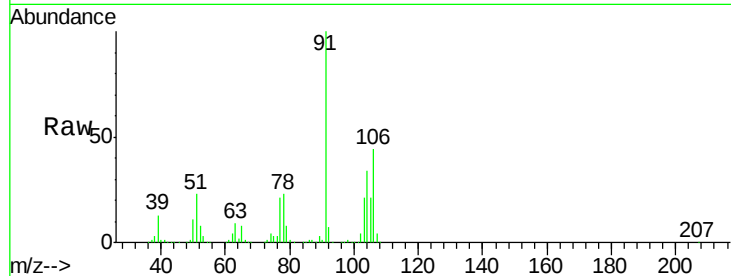
#65
o-Xylene
Concen: 21.550 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
106	100	520510		
91	227.2	112.3	337.0	

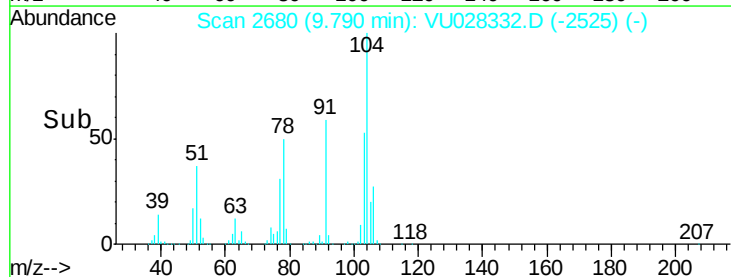
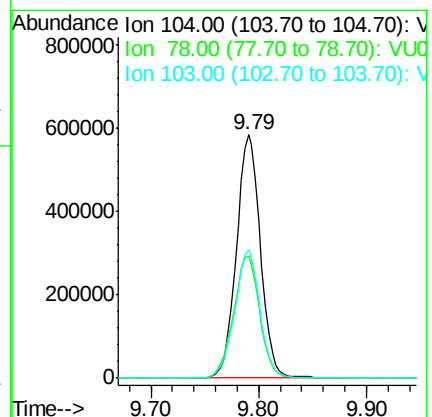
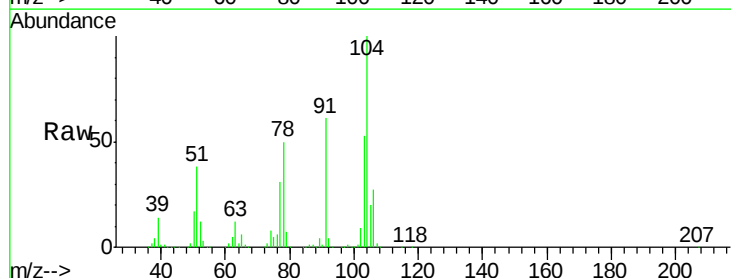
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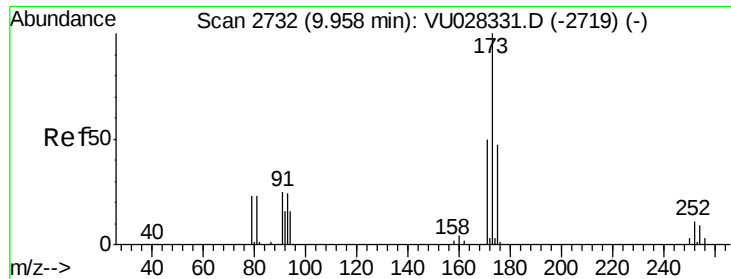
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#66
Styrene
Concen: 21.913 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	907838		
78	54.8	44.0	66.0	
103	55.5	45.2	67.8	





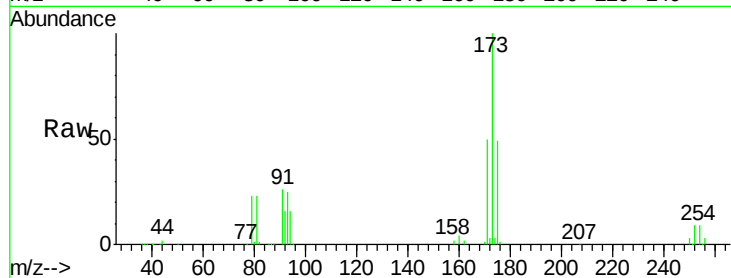
#67
Bromoform
Concen: 21.160 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

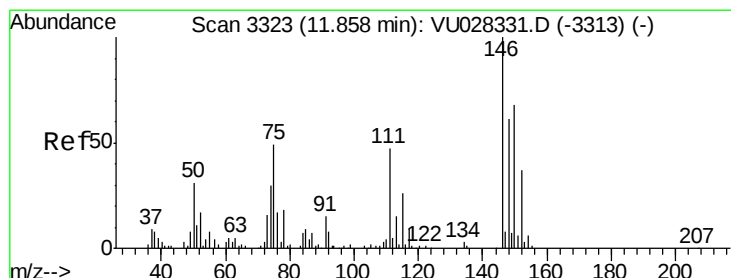
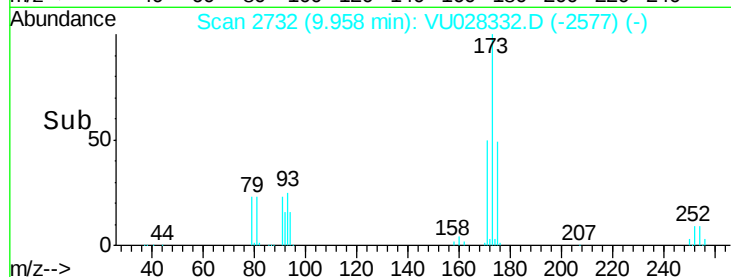
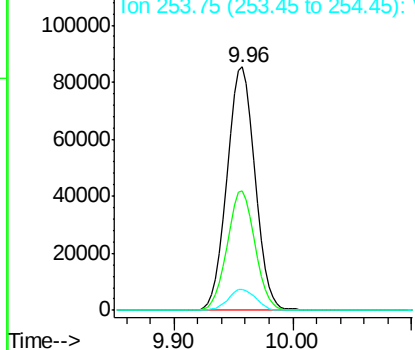
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.7	39.0	58.6
254	8.5	6.8	10.2

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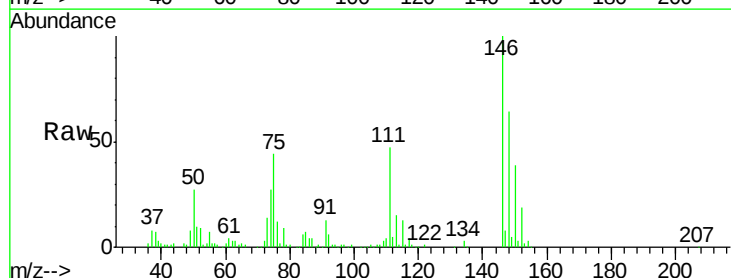


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V

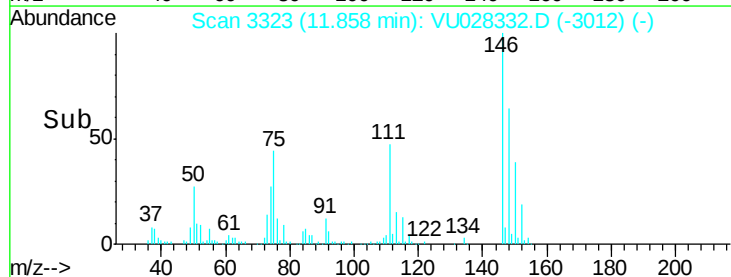
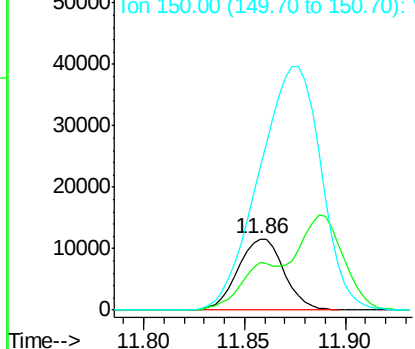


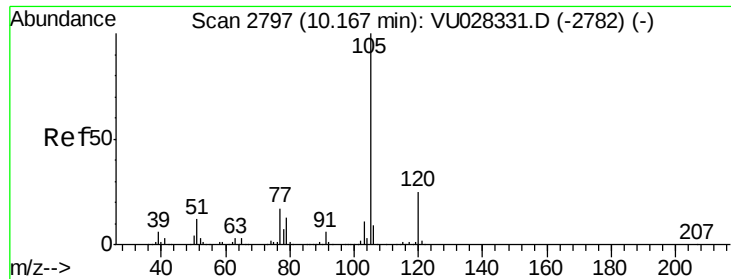
#68
1,2-Dichlorobenzene-d4
Concen: 21.160 ug/l
RT: 11.86 min Scan# 3323
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	0.0	146.8
150	0.0	0.0	653.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





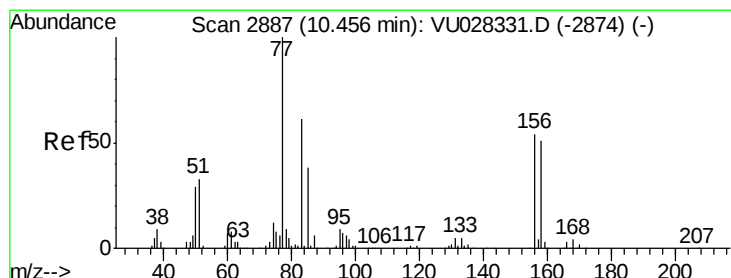
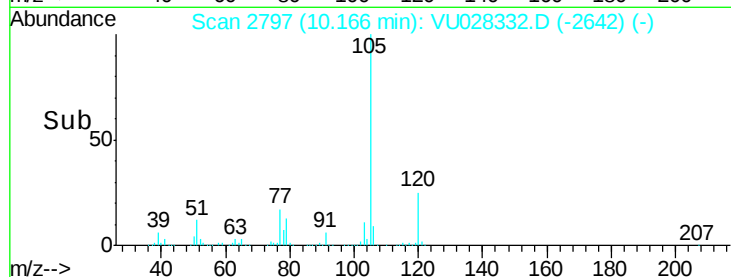
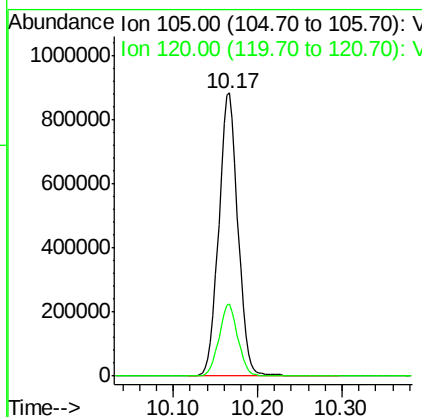
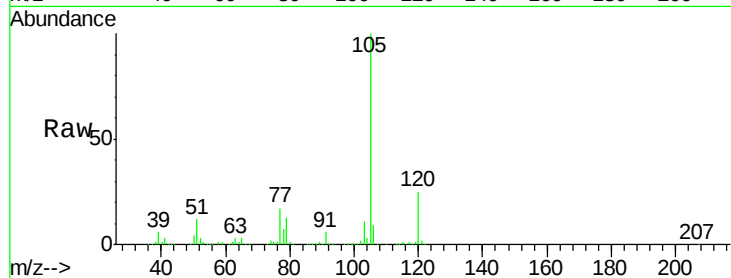
#69
Isopropylbenzene
Concen: 21.596 ug/l
RT: 10.17 min Scan# 2797
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion: 105 Resp: 1396739
Ion Ratio Lower Upper
105 100
120 25.1 12.6 37.6

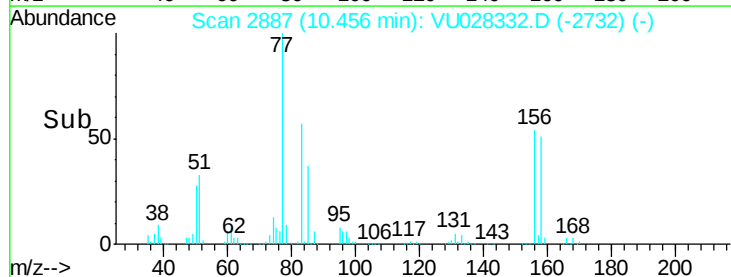
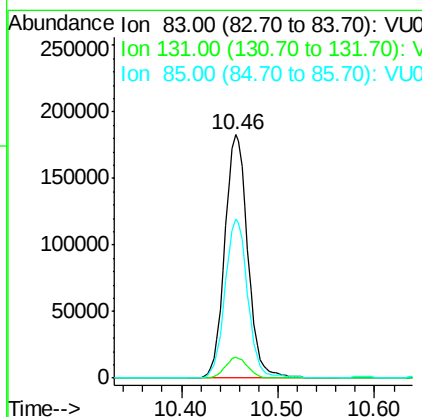
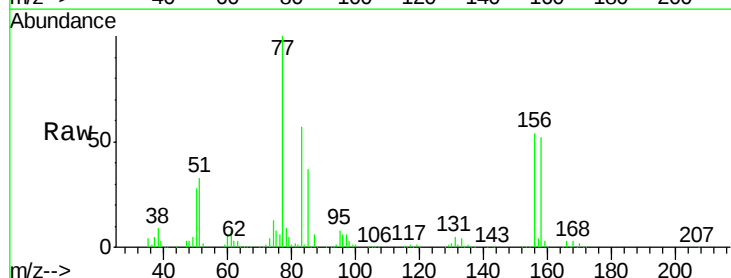
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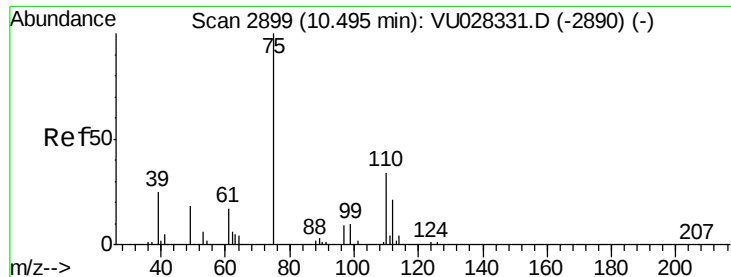
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#70
1,1,2,2-Tetrachloroethane
Concen: 20.312 ug/l
RT: 10.46 min Scan# 2887
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion: 83 Resp: 301199
Ion Ratio Lower Upper
83 100
131 8.3 6.6 9.8
85 64.8 50.5 75.7





#71

1,2,3-Trichloropropane

Concen: 20.270 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 207076
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

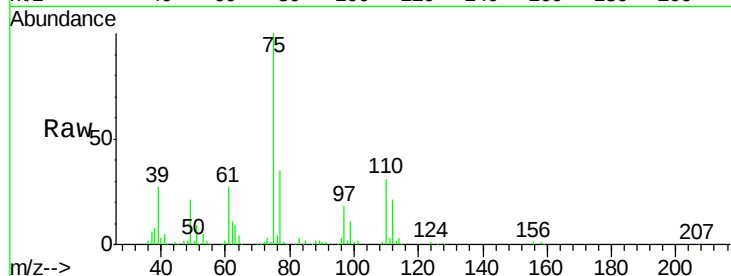
110 33.0 0.0 67.6

97 19.7 0.0 35.8

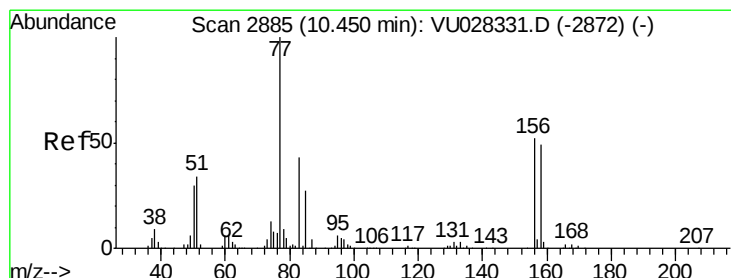
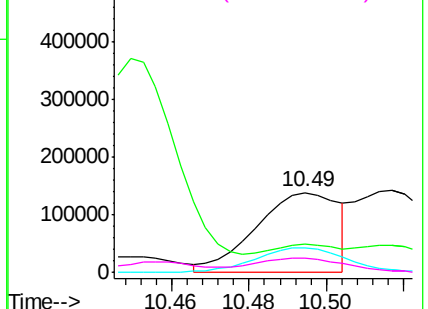
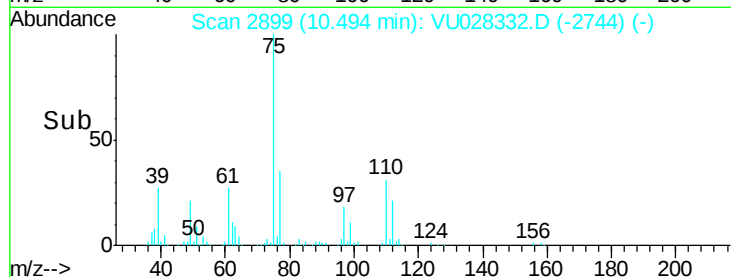
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Abundance Ion 75.00 (74.70 to 75.70): VU028332.D (-2744) (-)
Ion 77.00 (76.70 to 77.70): VU028332.D (-2744) (-)
Ion 110.00 (109.70 to 110.70): VU028332.D (-2744) (-)
Ion 97.00 (96.70 to 97.70): VU028332.D (-2744) (-)



#72

Bromobenzene

Concen: 21.387 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU028332.D

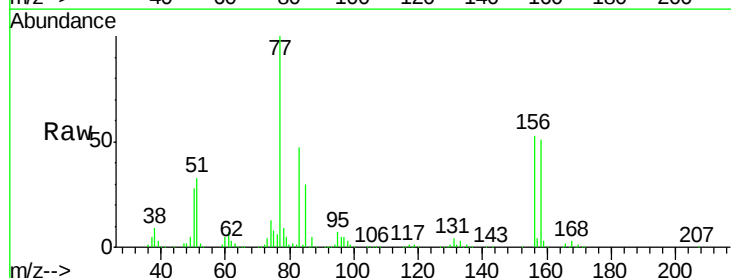
Acq: 26 Nov 2018 11:49

Tgt Ion: 156 Resp: 307024
Ion Ratio Lower Upper

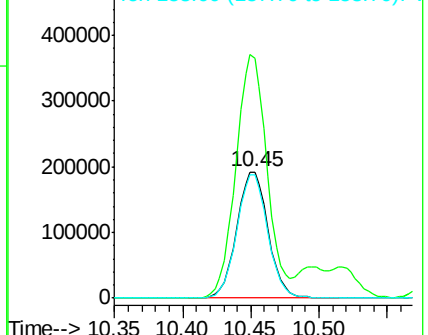
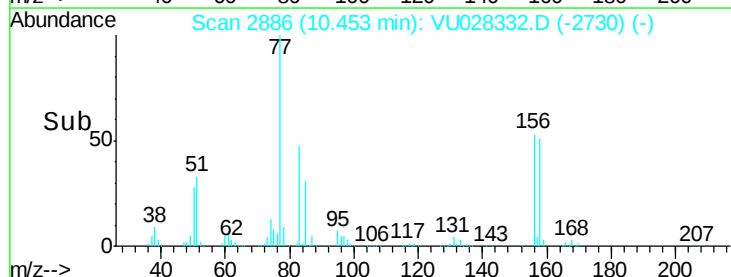
156 100

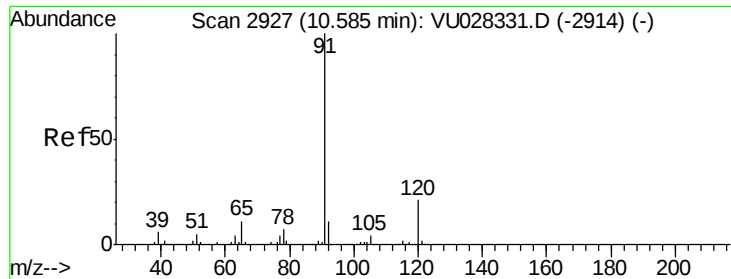
77 190.6 0.0 380.4

158 97.1 0.0 191.2



Abundance Ion 156.00 (155.70 to 156.70): VU028332.D (-2730) (-)
Ion 77.00 (76.70 to 77.70): VU028332.D (-2730) (-)
Ion 158.00 (157.70 to 158.70): VU028332.D (-2730) (-)





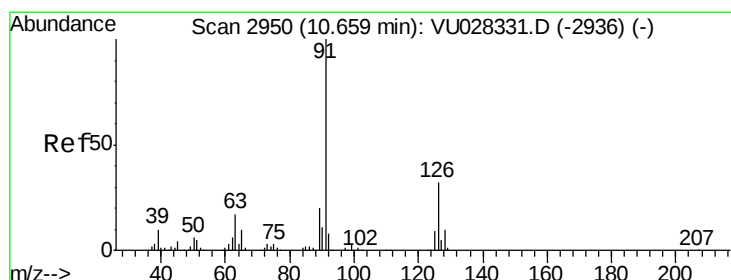
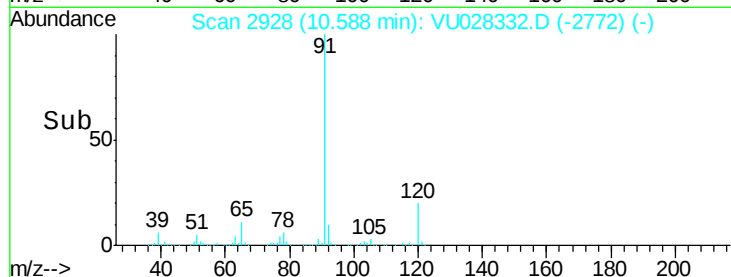
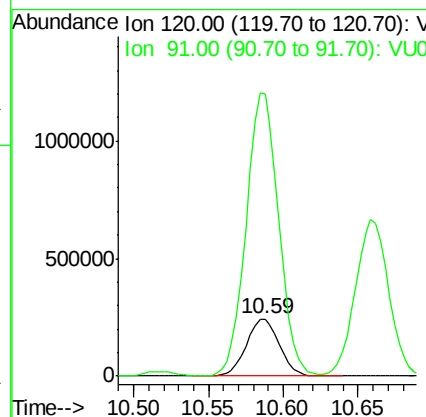
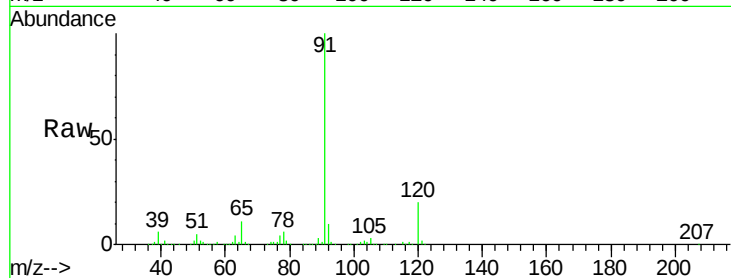
#73
n-propylbenzene
Concen: 22.189 ug/l
RT: 10.59 min Scan# 2928
Delta R.T. 0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion:120 Resp: 372213
Ion Ratio Lower Upper
120 100
91 488.2 388.1 582.1

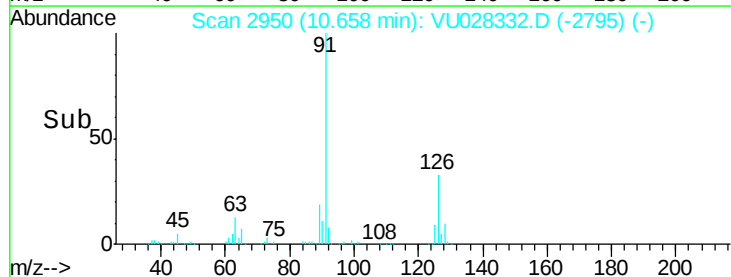
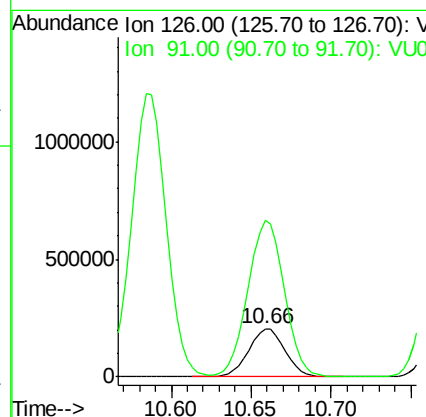
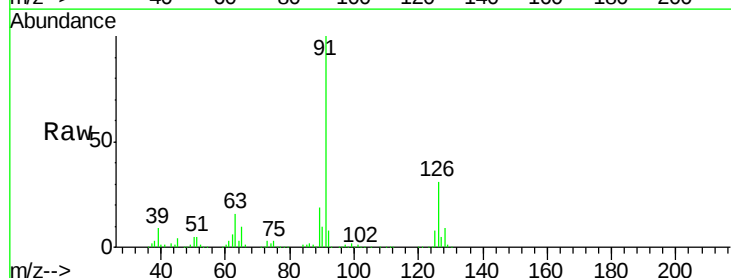
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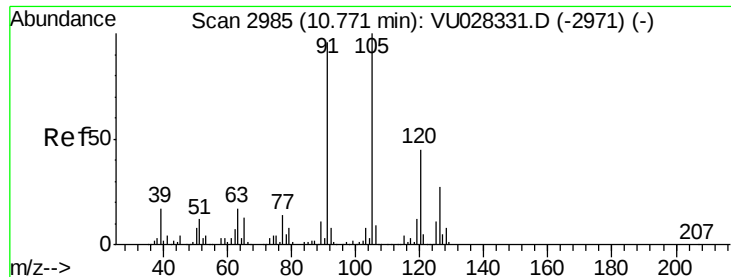
MMDadoda
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#74
2-Chlorotoluene
Concen: 21.441 ug/l
RT: 10.66 min Scan# 2950
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion:126 Resp: 315143
Ion Ratio Lower Upper
126 100
91 325.3 0.0 661.0





#75

1,3,5-Trimethylbenzene

Concen: 21.795 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 1186367

Ion Ratio Lower Upper

105 100

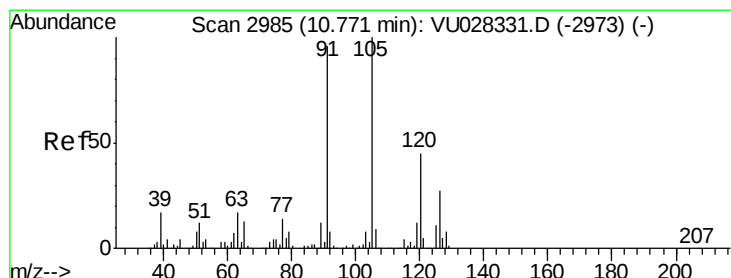
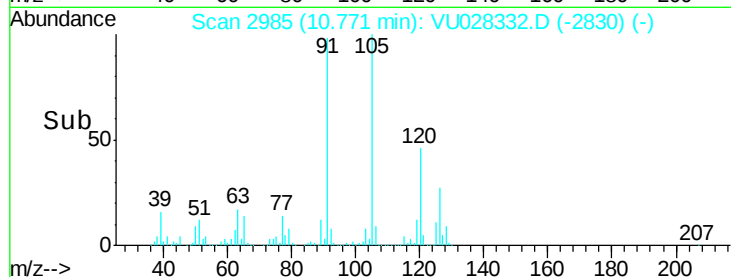
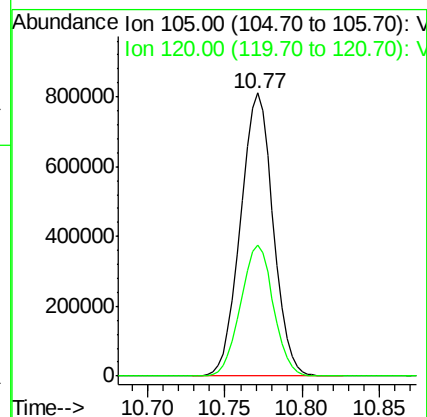
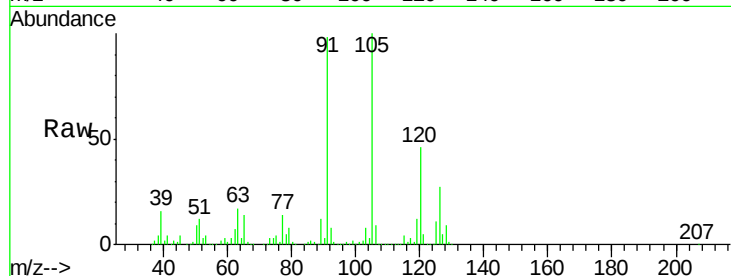
120 46.7 36.3 54.5

Manual Integrations

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#76

4-Chlorotoluene

Concen: 21.974 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028332.D

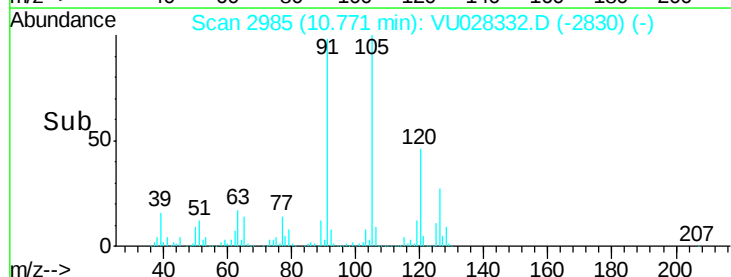
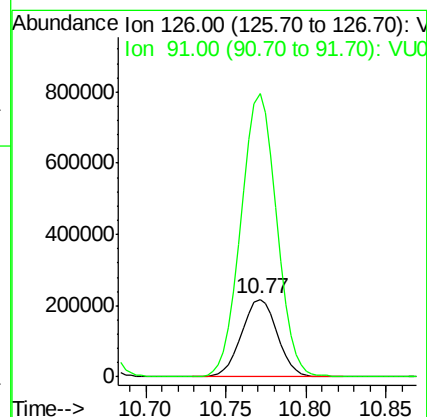
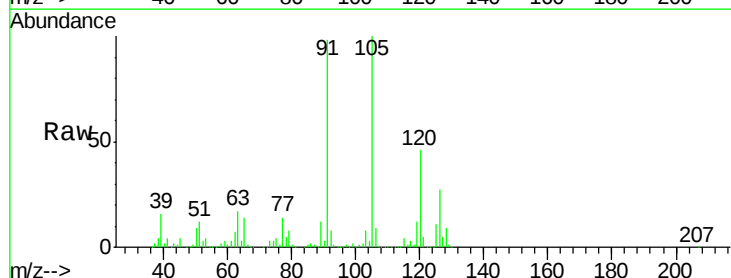
Acq: 26 Nov 2018 11:49

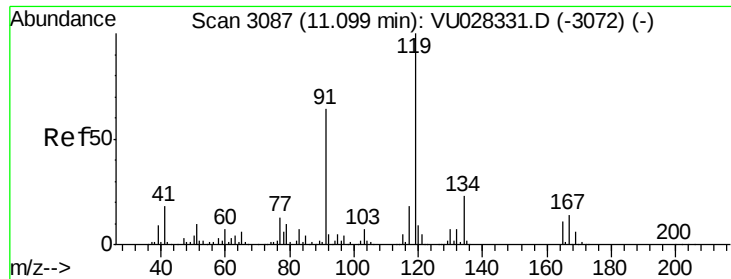
Tgt Ion:126 Resp: 327451

Ion Ratio Lower Upper

126 100

91 368.8 0.0 731.2





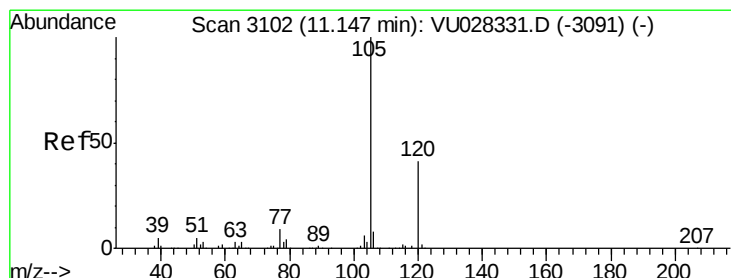
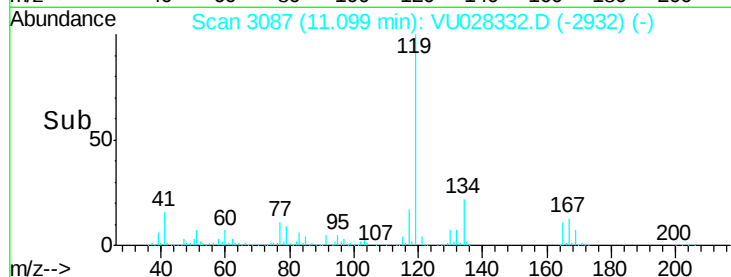
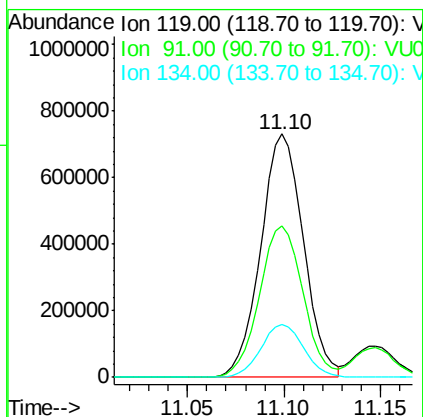
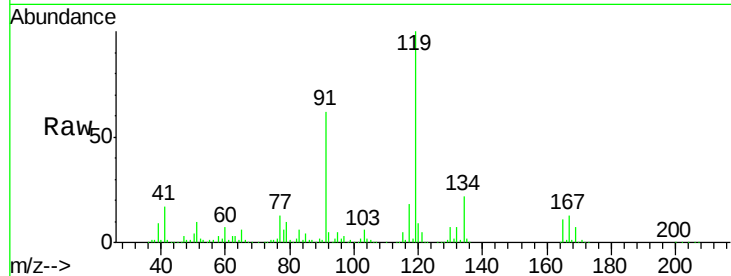
#77
 tert-Butylbenzene
 Concen: 21.903 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
119	100		
91	63.6	32.0	96.0
134	21.9	17.9	26.9

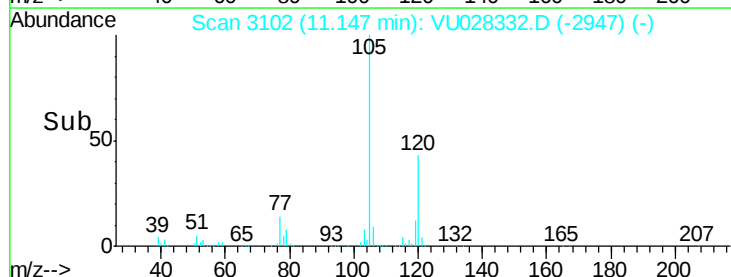
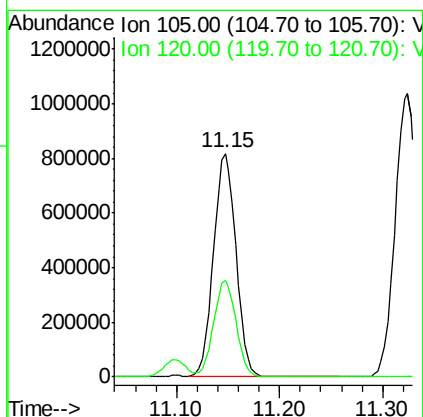
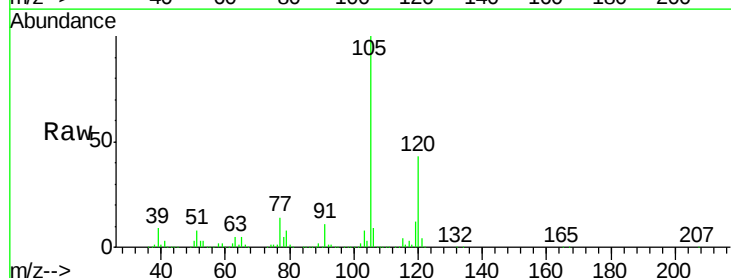
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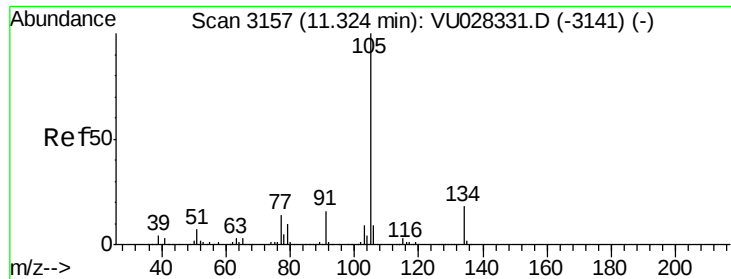
MMDadoda
 11/30/2018 2:33:37 PM



#78
 1,2,4-Trimethylbenzene
 Concen: 22.063 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.9	65.8





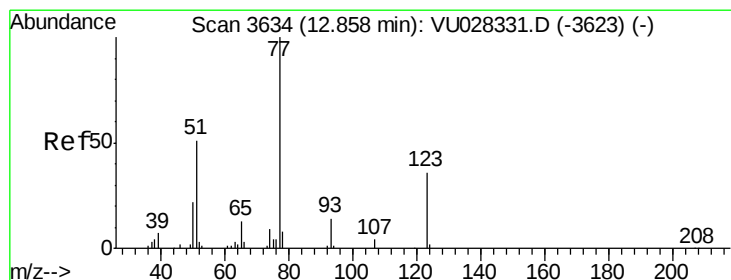
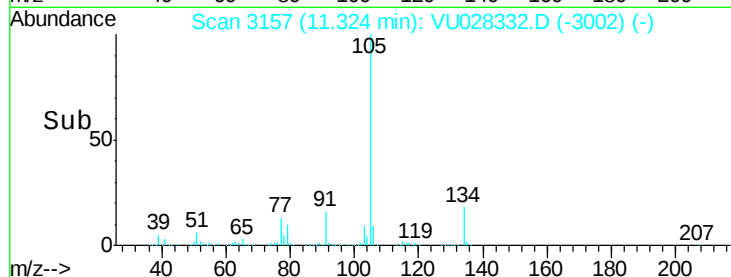
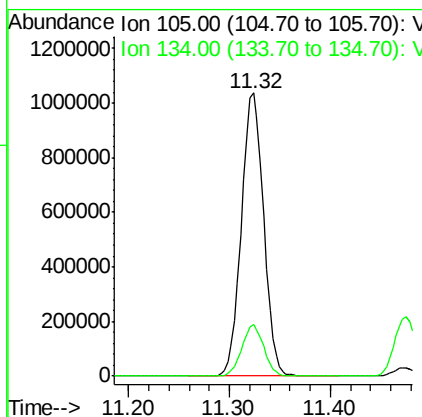
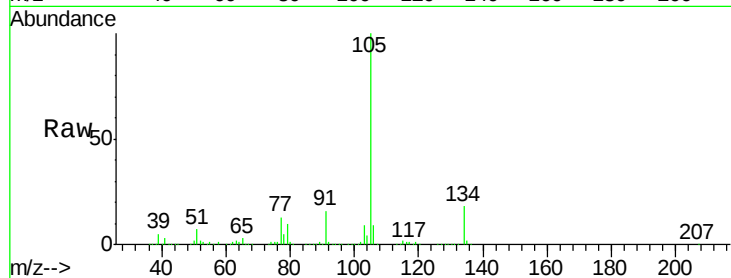
#79
 sec-Butylbenzene
 Concen: 22.119 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion: 105 Resp: 1580179
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.6 22.0

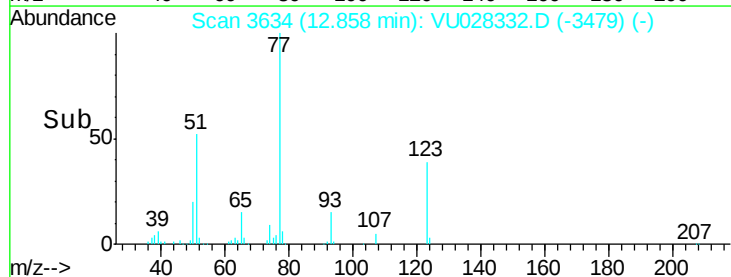
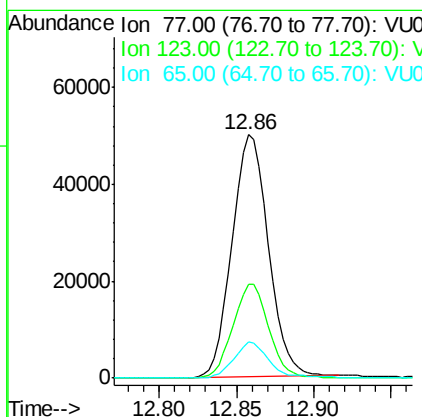
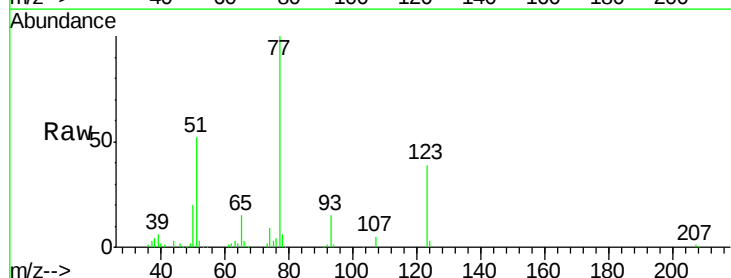
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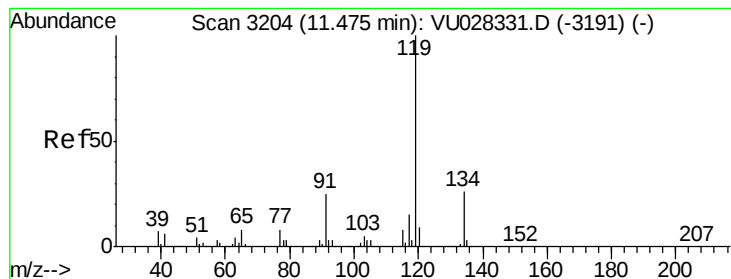
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#80
 Nitrobenzene
 Concen: 122.608 ug/l
 RT: 12.86 min Scan# 3634
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion: 77 Resp: 81908
 Ion Ratio Lower Upper
 77 100
 123 38.0 16.5 58.3
 65 13.6 12.1 15.3





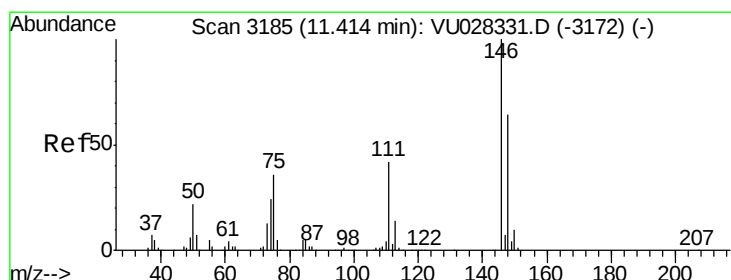
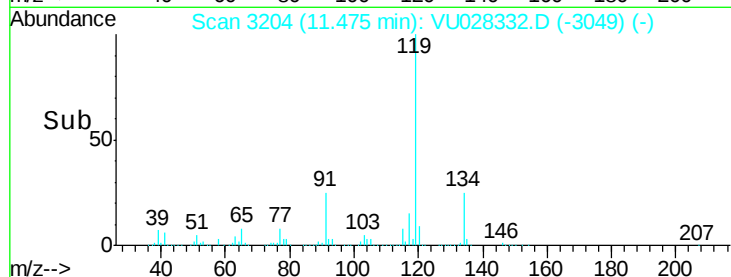
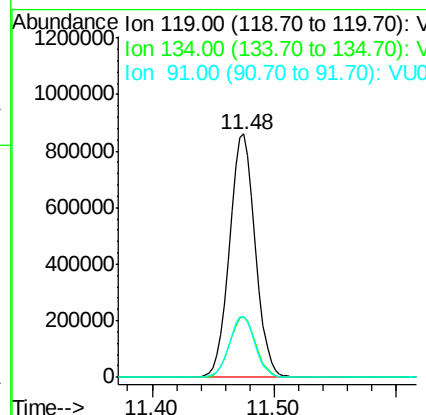
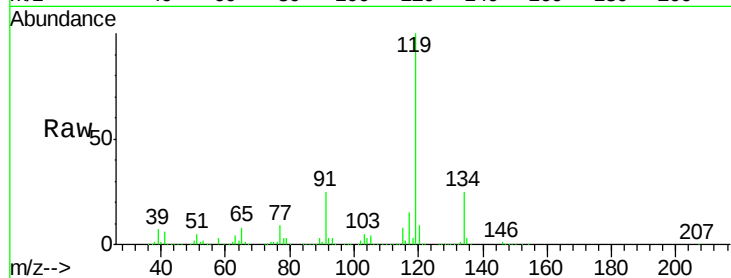
#81
p-Isopropyltoluene
Concen: 22.408 ug/l
RT: 11.48 min Scan# 3204
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion:119 Resp: 1272103
Ion Ratio Lower Upper
119 100
134 25.2 20.3 30.5
91 25.0 20.0 30.0

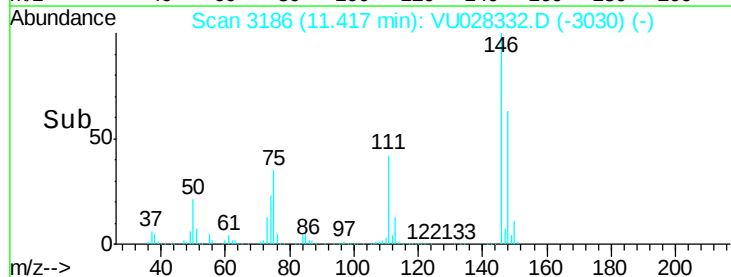
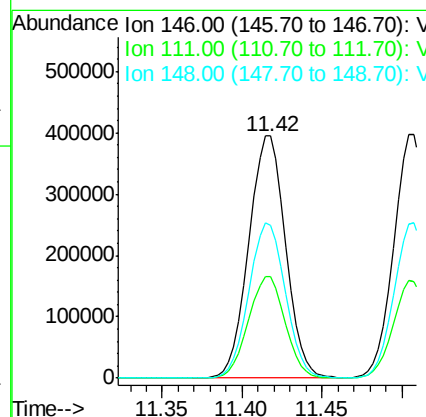
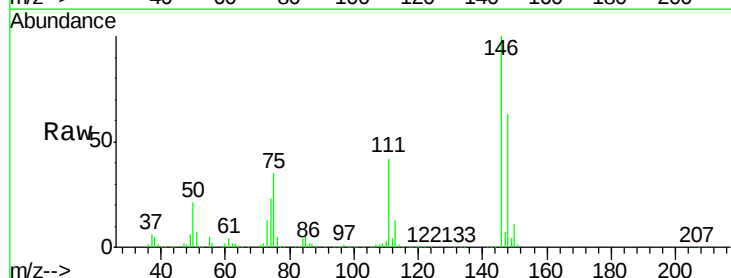
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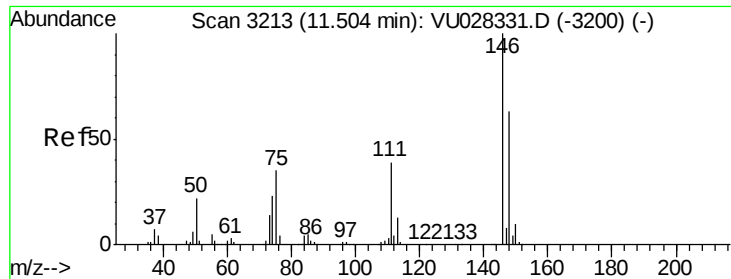
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#82
1,3-Dichlorobenzene
Concen: 21.511 ug/l
RT: 11.42 min Scan# 3186
Delta R.T. 0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion:146 Resp: 618524
Ion Ratio Lower Upper
146 100
111 41.9 33.4 50.2
148 63.8 51.2 76.8





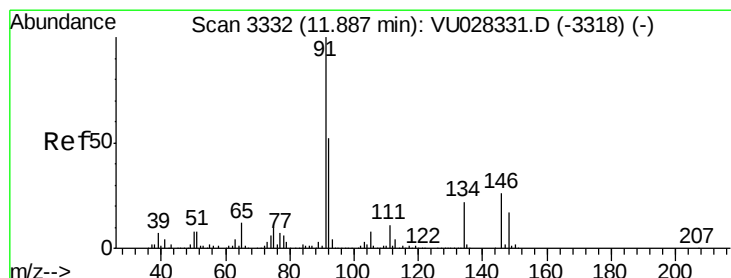
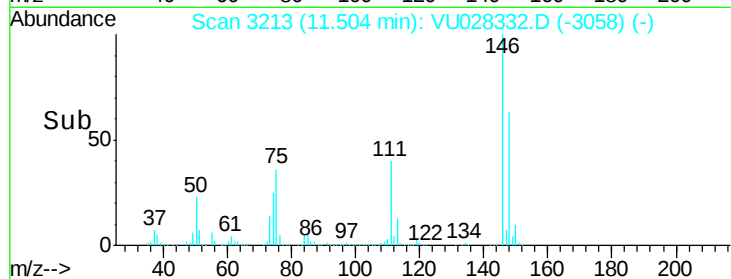
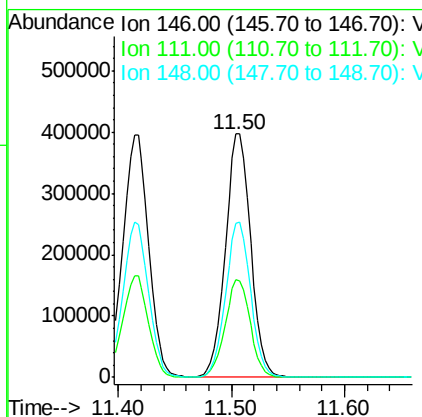
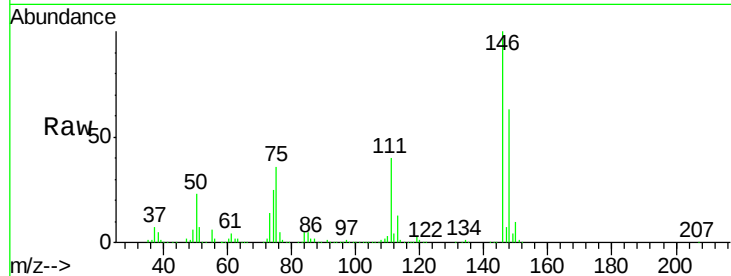
#83
 1,4-Dichlorobenzene
 Concen: 21.597 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	31.4	47.2
148	63.1	50.7	76.1

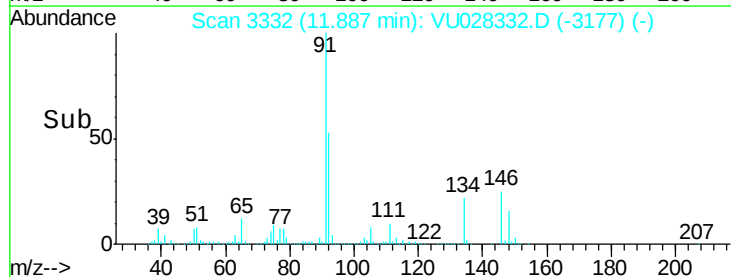
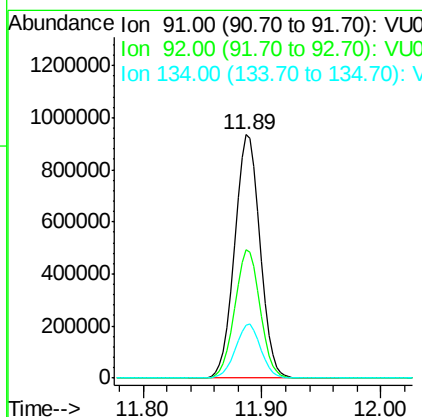
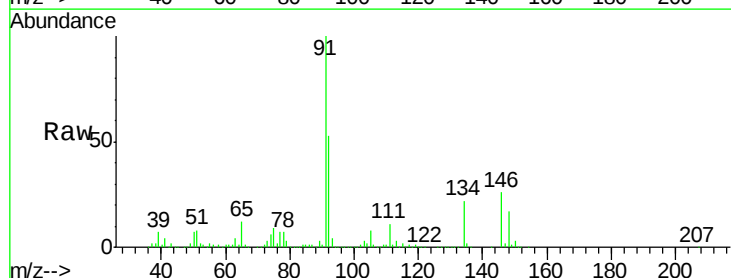
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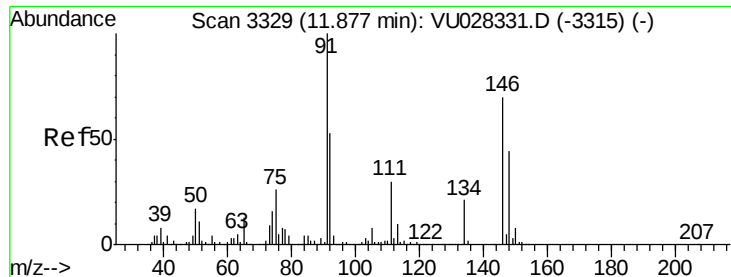
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#84
 n-Butylbenzene
 Concen: 23.154 ug/l
 RT: 11.89 min Scan# 3332
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.6	41.6	62.4
134	22.0	17.8	26.6





#85

1,2-Dichlorobenzene

Concen: 21.257 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Instrument :

MSVOA_U

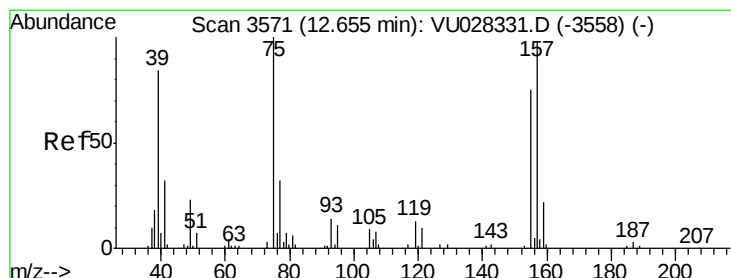
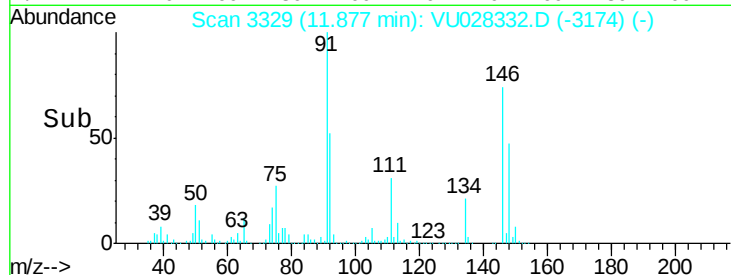
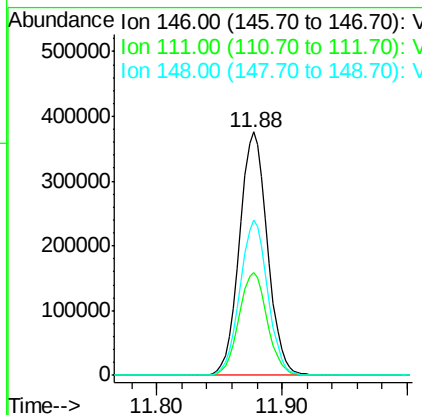
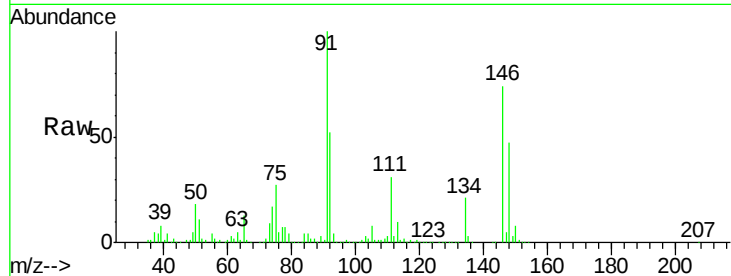
ClientSampleId :

VSTDIC020

Tgt Ion:	146	Resp:	581785
Ion Ratio	Lower	Upper	
146	100		
111	43.0	21.4	64.3
148	63.6	31.4	94.2

Manual Integrations
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#86

1,2-Dibromo-3-Chloropropane

Concen: 21.245 ug/l

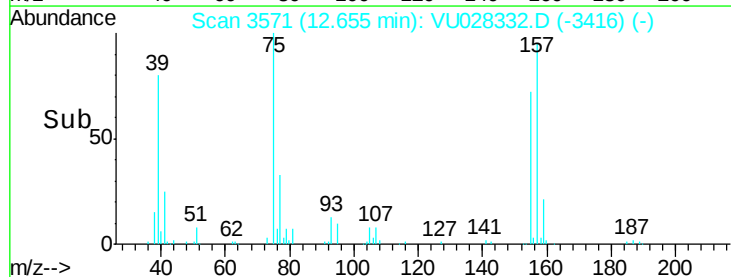
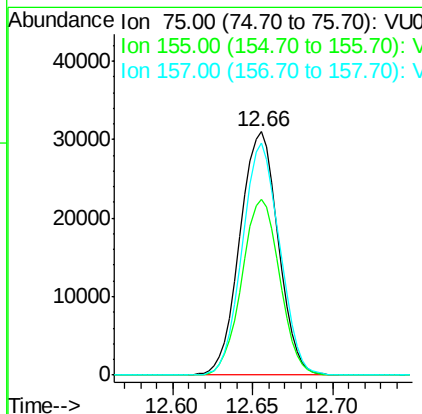
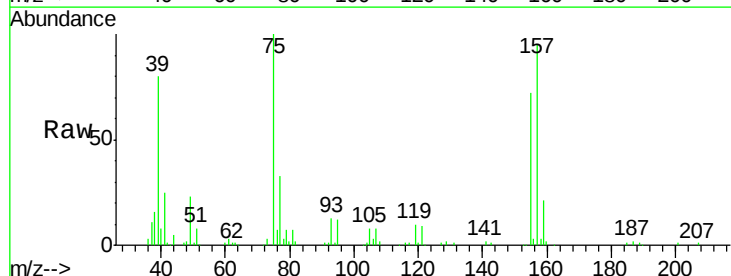
RT: 12.66 min Scan# 3571

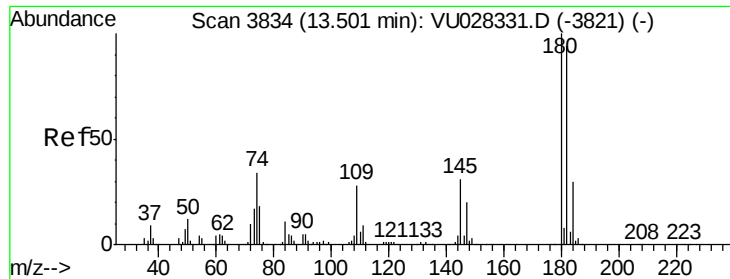
Delta R.T. -0.00 min

Lab File: VU028332.D

Acq: 26 Nov 2018 11:49

Tgt Ion:	75	Resp:	50677
Ion Ratio	Lower	Upper	
75	100		
155	71.2	57.0	85.4
157	92.7	75.4	113.2





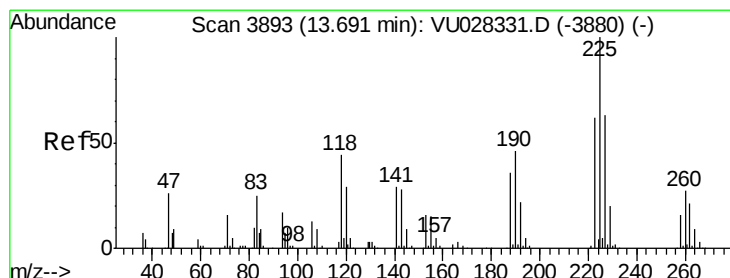
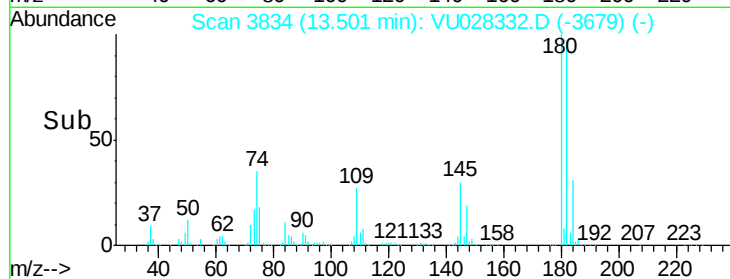
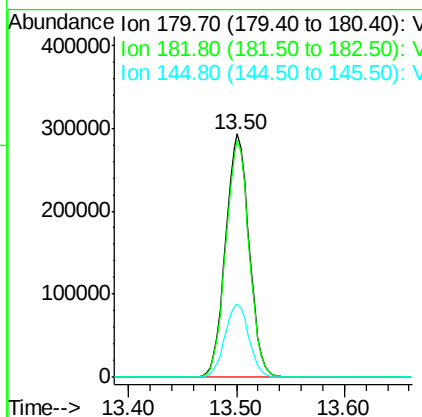
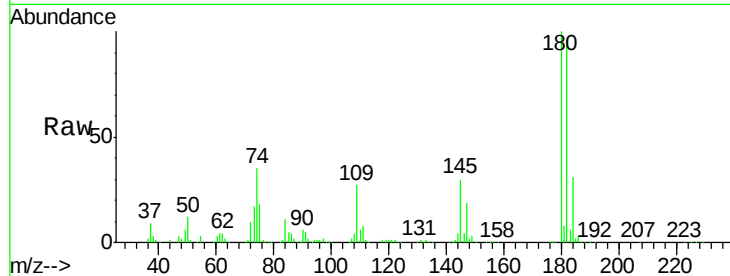
#87
 1,2,4-Trichlorobenzene
 Concen: 23.174 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	75.6	113.4
145	30.6	24.4	36.6

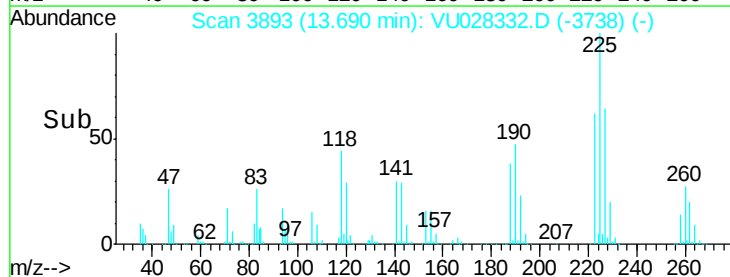
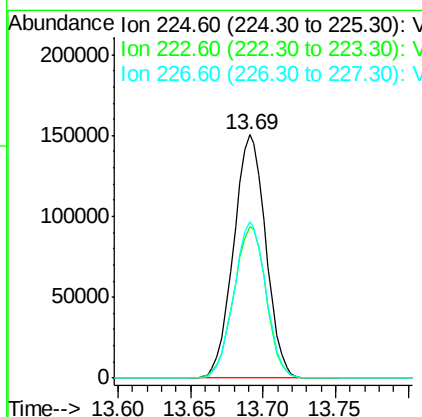
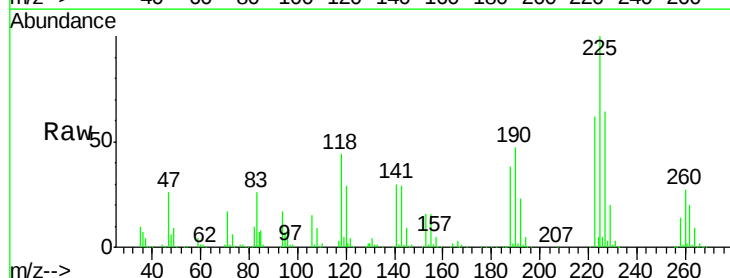
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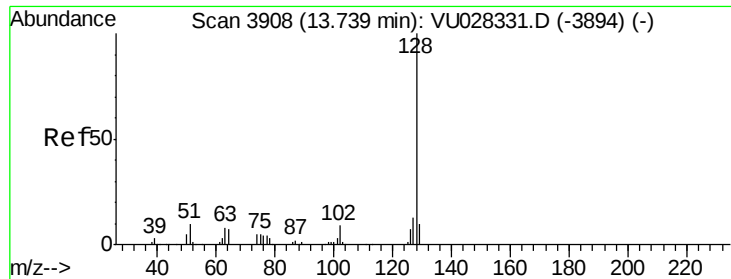
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 11/30/2018 2:33:37 PM



#88
 Hexachlorobutadiene
 Concen: 22.177 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028332.D
 Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.6	76.0
227	64.1	50.8	76.2





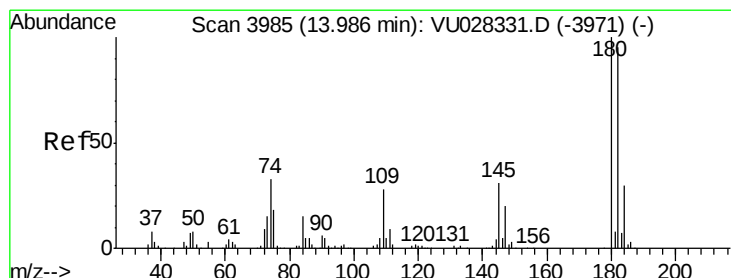
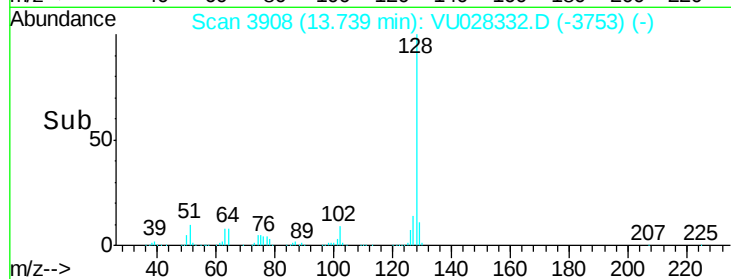
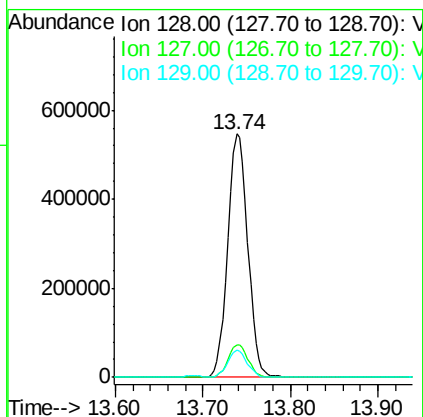
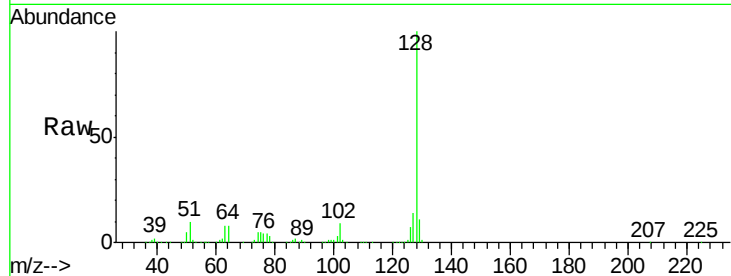
#89
Naphthalene
Concen: 22.935 ug/l
RT: 13.74 min Scan# 3908
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	10.8	8.2	12.4

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#90
1,2,3-Trichlorobenzene
Concen: 22.237 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. -0.00 min
Lab File: VU028332.D
Acq: 26 Nov 2018 11:49

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.1	114.1
145	32.2	26.0	39.0

