

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082819\
 Data File : VU033998.D
 Acq On : 28 Aug 2019 02:39
 Operator : JC/SP
 Sample : VU0828WBS02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Manual Integrations
 APPROVED

MMDadoda
 8/28/2019 10:00:44 AM

Quant Time: Aug 28 05:31:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 28 02:42:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	391101	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	650673	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	530259	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	312703	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	273215	62.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.76%	
35) Dibromofluoromethane	4.86	113	219617	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
50) Toluene-d8	7.55	98	844033	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
62) 4-Bromofluorobenzene	10.29	95	295829	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	93512	23.772	ug/l	97
3) Chloromethane	1.32	50	127189	30.222	ug/l	99
4) Vinyl Chloride	1.40	62	121432	30.921	ug/l	100
5) Bromomethane	1.60	94	55414	23.216	ug/l	99
6) Chloroethane	1.68	64	49381	21.119	ug/l	98
7) Trichlorofluoromethane	1.87	101	103242	19.980	ug/l	100
8) Diethyl Ether	2.09	74	42466	21.666	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.27	101	72343	21.921	ug/l	97
10) Methyl Iodide	2.40	142	110343	22.327	ug/l	97
11) Tert butyl alcohol	2.81	59	136875	121.622	ug/l #	87
12) 1,1-Dichloroethene	2.27	96	74626	21.665	ug/l	91
13) Acrolein	2.18	56	34233	95.783	ug/l	97
14) Allyl chloride	2.58	41	162852m	26.702	ug/l	
15) Acrylonitrile	2.92	53	299661	131.715	ug/l	99
16) Acetone	2.31	43	250637	120.512	ug/l	97
17) Carbon Disulfide	2.46	76	267731	23.670	ug/l	99
18) Methyl Acetate	2.60	43	146733	28.645	ug/l	94
19) Methyl tert-butyl Ether	2.98	73	286912	24.796	ug/l	98
20) Methylene Chloride	2.68	84	101508	23.005	ug/l	89
21) trans-1,2-Dichloroethene	2.96	96	91878	23.395	ug/l	90
22) Diisopropyl ether	3.55	45	318067	28.385	ug/l	97
23) Vinyl Acetate	3.50	43	1317177	138.362	ug/l	96
24) 1,1-Dichloroethane	3.42	63	178972	25.510	ug/l	99
25) 2-Butanone	4.24	43	402423	134.985	ug/l	93
26) 2,2-Dichloropropane	4.20	77	109212	18.410	ug/l	100
27) cis-1,2-Dichloroethene	4.20	96	102464	23.307	ug/l	95
28) Bromochloromethane	4.52	49	90509	28.039	ug/l	83
29) Tetrahydrofuran	4.61	42	257468	138.075	ug/l	93
30) Chloroform	4.65	83	174273	24.259	ug/l	99
31) Cyclohexane	4.97	56	164666	25.703	ug/l	95
32) 1,1,1-Trichloroethane	4.89	97	144405	23.877	ug/l	95
36) 1,1-Dichloropropene	5.11	75	127386	21.375	ug/l	97
37) Ethyl Acetate	4.36	43	147079	24.606	ug/l	97
38) Carbon Tetrachloride	5.11	117	124155	20.442	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	140622	19.941	ug/l	93
40) Benzene	5.37	78	391249	22.081	ug/l	100
41) Methacrylonitrile	4.52	41	77802	25.118	ug/l	94
42) 1,2-Dichloroethane	5.38	62	142235	23.738	ug/l	96
43) Isopropyl Acetate	5.53	43	225176	24.569	ug/l	95
44) Trichloroethene	6.17	130	97202	19.239	ug/l	91
45) 1,2-Dichloropropane	6.41	63	109487	23.096	ug/l	96
46) Dibromomethane	6.54	93	70909	21.995	ug/l	90
47) Bromodichloromethane	6.74	83	135598	22.083	ug/l	96
48) Methyl methacrylate	6.60	41	105511	24.213	ug/l	93
49) 1,4-Dioxane	6.59	88	50231	420.022	ug/l #	94
51) 4-Methyl-2-Pentanone	7.44	43	782424	123.817	ug/l	95
52) Toluene	7.62	92	241666	21.630	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	141008	20.766	ug/l	99
54) cis-1,3-Dichloropropene	7.25	75	155855	21.233	ug/l	95
55) 1,1,2-Trichloroethane	8.05	97	99032	20.977	ug/l	97
56) Ethyl methacrylate	8.00	69	143546	20.832	ug/l	92
57) 1,3-Dichloropropane	8.22	76	171995	22.355	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.11	63	259171	103.775	ug/l	93
59) 2-Hexanone	8.34	43	594221	122.339	ug/l	93
60) Dibromochloromethane	8.46	129	103326	19.463	ug/l	100
61) 1,2-Dibromoethane	8.57	107	104431	20.945	ug/l	100
64) Tetrachloroethene	8.21	164	86340	20.251	ug/l	91
65) Chlorobenzene	9.10	112	217822	19.949	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.19	131	81065	19.913	ug/l	99
67) Ethyl Benzene	9.23	91	370958	20.376	ug/l	100
68) m/p-Xylenes	9.36	106	296399	42.215	ug/l	97
69) o-Xylene	9.76	106	155297	23.135	ug/l	96
70) Styrene	9.77	104	271436	23.626	ug/l	97
71) Bromoform	9.94	173	74282	20.613	ug/l #	99
73) Isopropylbenzene	10.15	105	398620	19.807	ug/l	99
74) N-amyl acetate	10.00	43	190663	25.238	ug/l	96
75) 1,1,2,2-Tetrachloroethane	10.44	83	150657	20.784	ug/l	99
76) 1,2,3-Trichloropropane	10.48	75	135667m	21.774	ug/l	
77) Bromobenzene	10.43	156	107515	18.905	ug/l	94
78) n-propylbenzene	10.57	91	508987	22.301	ug/l	98
79) 2-Chlorotoluene	10.64	91	315379	22.900	ug/l	95
80) 1,3,5-Trimethylbenzene	10.76	105	380187	22.057	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.49	75	38125m	17.526	ug/l	
82) 4-Chlorotoluene	10.76	91	350896	22.010	ug/l	98
83) tert-Butylbenzene	11.08	119	350421	20.943	ug/l	97
84) 1,2,4-Trimethylbenzene	11.13	105	375632	22.198	ug/l	98
85) sec-Butylbenzene	11.30	105	435385	21.803	ug/l	98
86) p-Isopropyltoluene	11.46	119	387500	20.732	ug/l	98
87) 1,3-Dichlorobenzene	11.40	146	197705	19.596	ug/l	97
88) 1,4-Dichlorobenzene	11.49	146	197074	19.354	ug/l	97
89) n-Butylbenzene	11.87	91	333097	21.323	ug/l	97
90) Hexachloroethane	12.12	117	65743	21.265	ug/l	87
91) 1,2-Dichlorobenzene	11.86	146	196097	19.746	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.64	75	34165	23.531	ug/l	82

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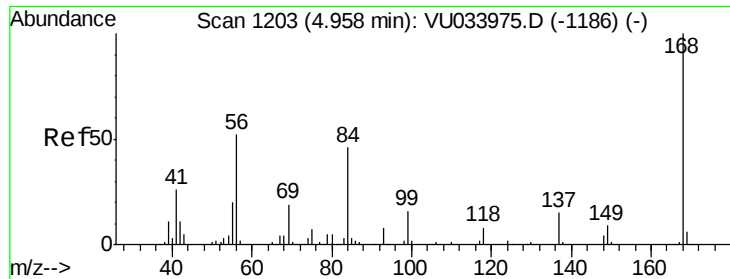
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	114436	17.554	ug/l	97
94) Hexachlorobutadiene	13.67	225	71126	17.470	ug/l	97
95) Naphthalene	13.73	128	313543	17.650	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	118673	18.700	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion:168 Resp: 391101

Ion Ratio Lower Upper

168 100

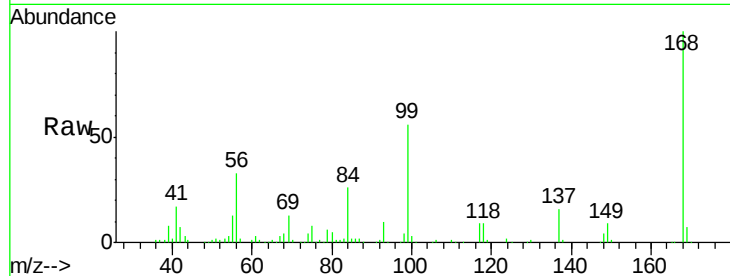
99 55.2 39.4 59.2

Manual Integrations

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8/28/2019 10:00:44 AM



Abundance Ion 167.90 (167.60 to 168.60): VU033975.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU033998.D (-1110) (-)

200000

150000

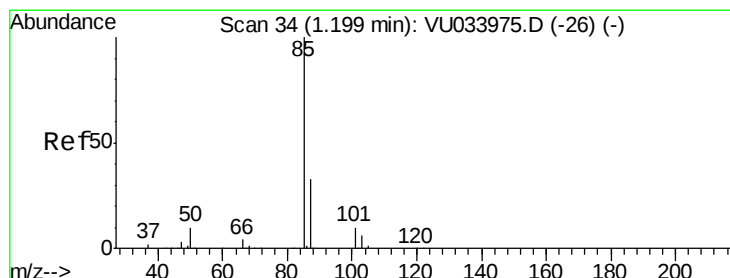
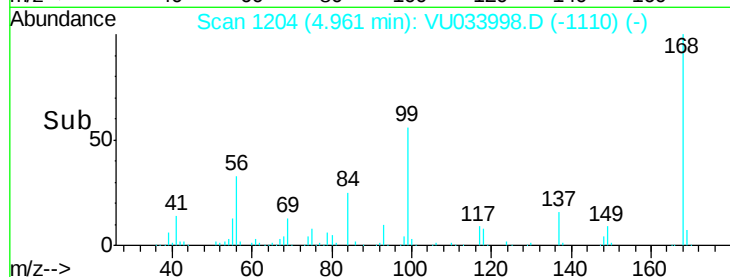
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50000

0

4.90 4.96 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 23.772 ug/l

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033998.D

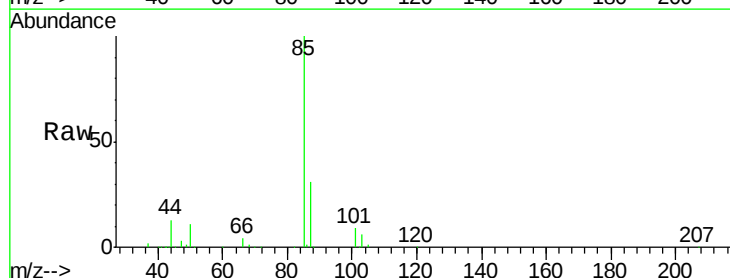
Acq: 28 Aug 2019 02:39

Tgt Ion: 85 Resp: 93512

Ion Ratio Lower Upper

85 100

87 31.1 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VU033975.D (-26) (-)

Ion 86.90 (86.60 to 87.60): VU033998.D (-1) (-)

100000

80000

60000

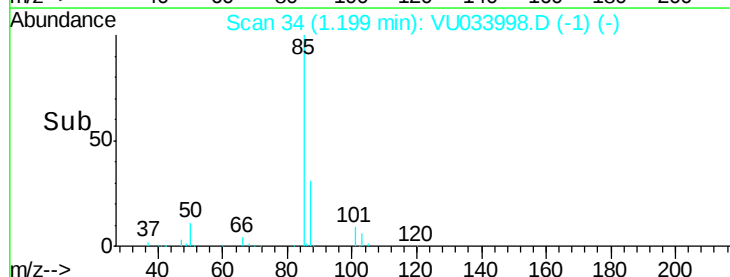
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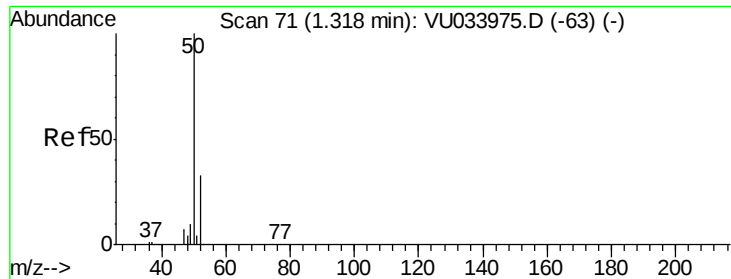
20000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 30.222 ug/l

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 50 Resp: 127189

Ion Ratio Lower Upper

50 100

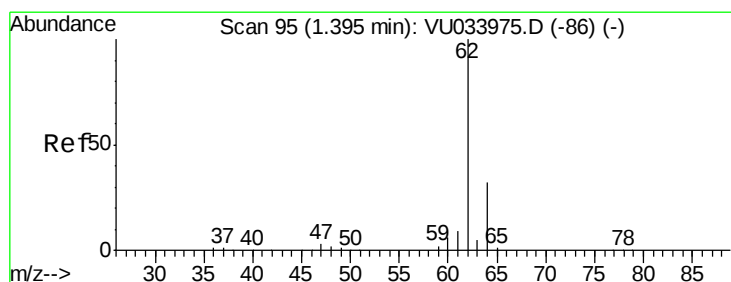
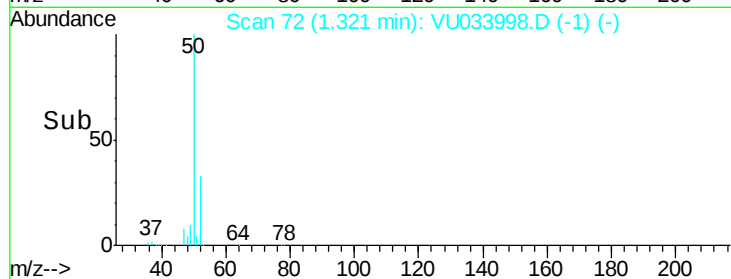
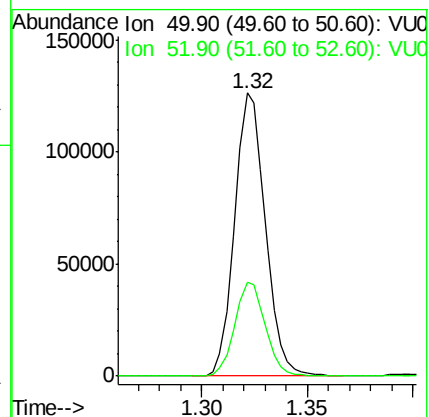
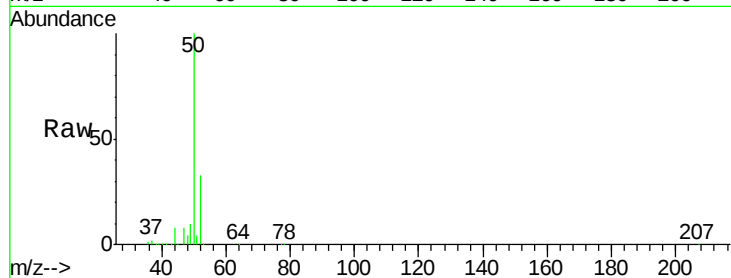
52 33.2 26.2 39.2

Manual Integrations

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8/28/2019 10:00:44 AM



#4

Vinyl Chloride

Concen: 30.921 ug/l

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033998.D

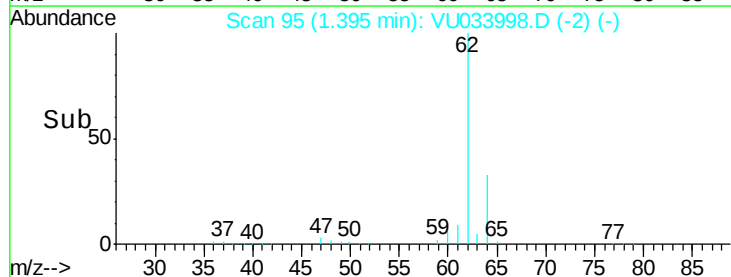
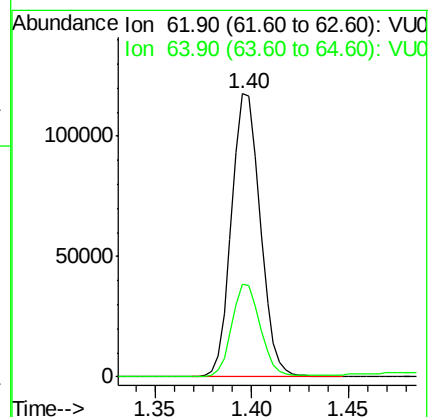
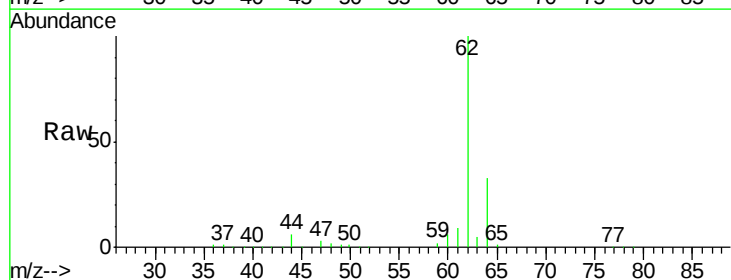
Acq: 28 Aug 2019 02:39

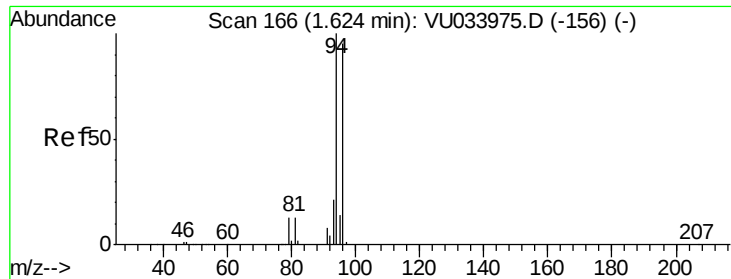
Tgt Ion: 62 Resp: 121432

Ion Ratio Lower Upper

62 100

64 32.4 25.9 38.9





#5

Bromomethane

Concen: 23.216 ug/l

RT: 1.60 min Scan# 160

Delta R.T. -0.02 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 94 Resp: 55414

Ion Ratio Lower Upper

94 100

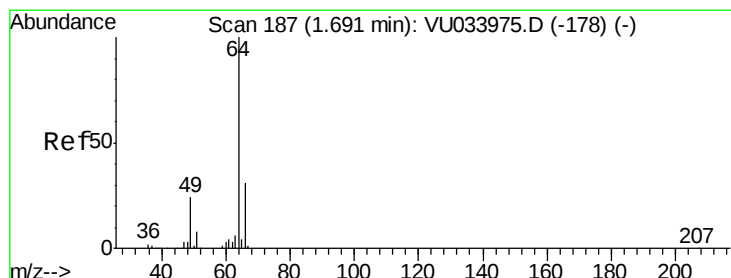
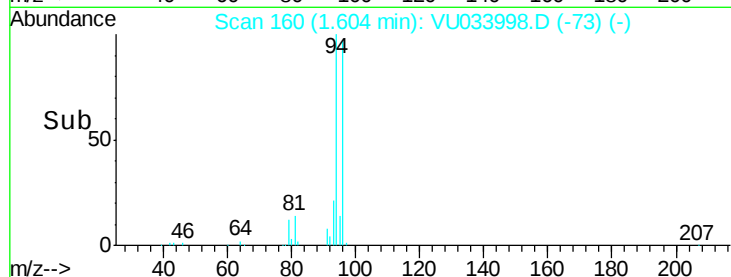
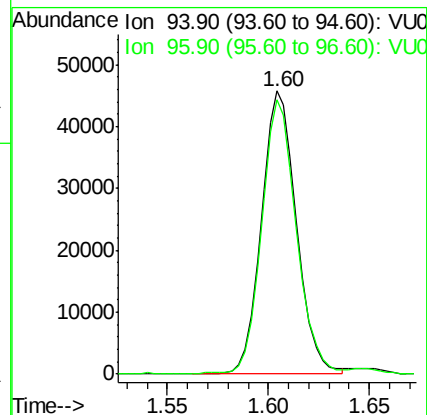
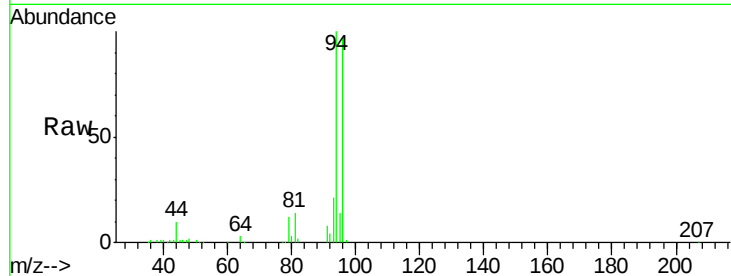
96 96.8 76.3 114.5

Manual Integrations

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#6

Chloroethane

Concen: 21.119 ug/l

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU033998.D

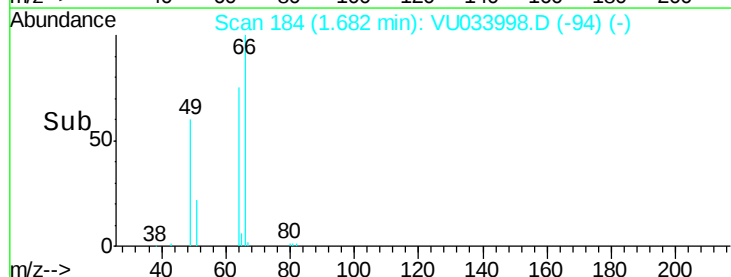
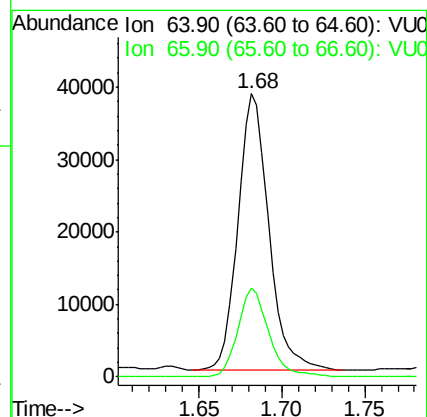
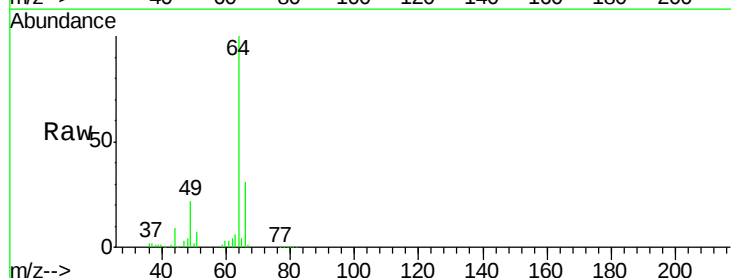
Acq: 28 Aug 2019 02:39

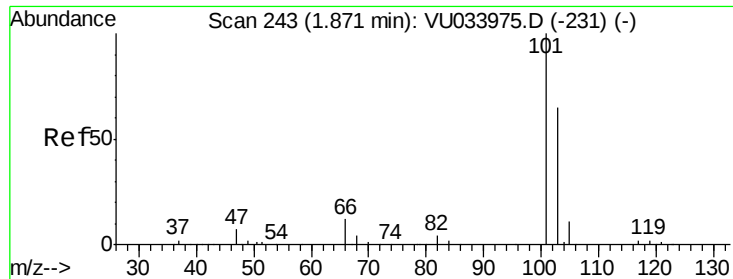
Tgt Ion: 64 Resp: 49381

Ion Ratio Lower Upper

64 100

66 32.2 24.9 37.3





#7

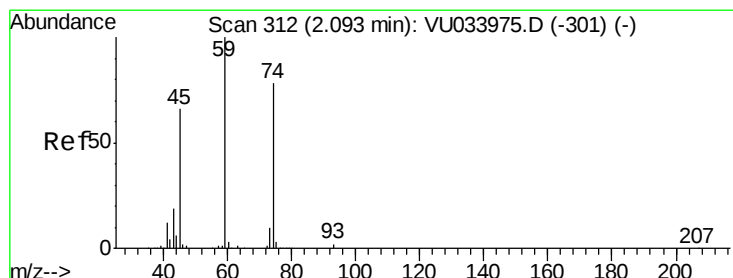
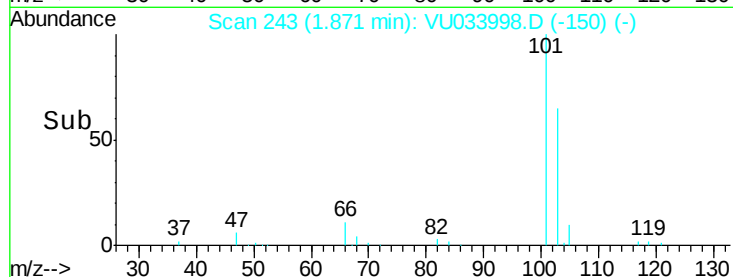
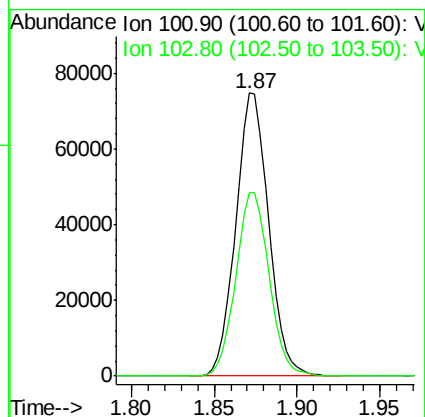
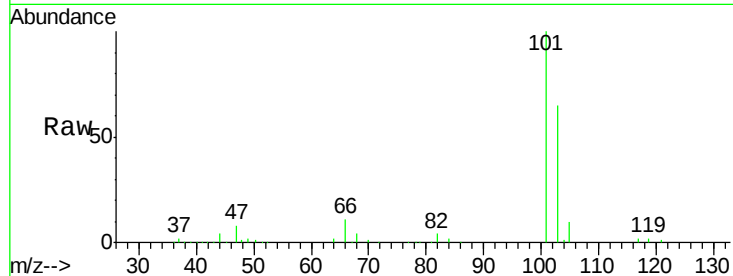
Trichlorofluoromethane
Concen: 19.980 ug/l
RT: 1.87 min Scan# 243
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion:101 Resp: 103242
Ion Ratio Lower Upper
101 100
103 64.9 52.0 78.0

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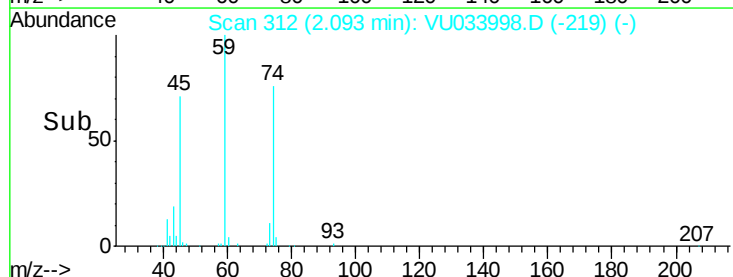
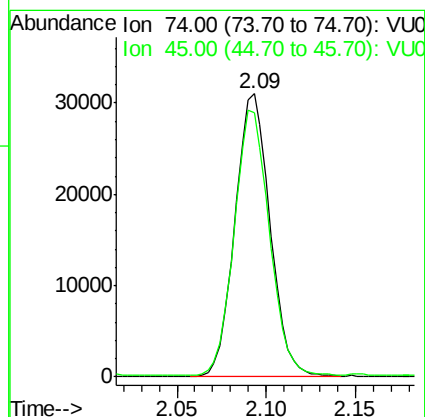
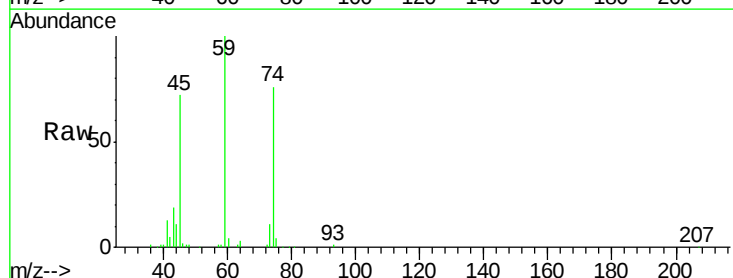
MMDadoda
8/28/2019 10:00:44 AM

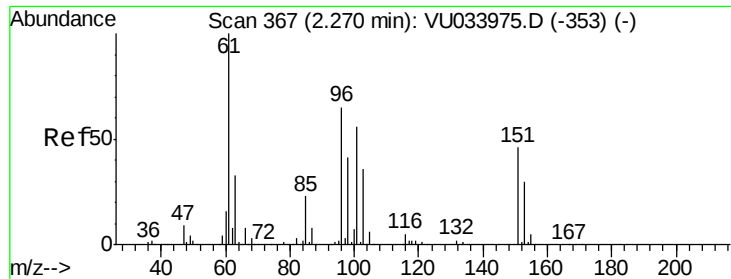


#8

Diethyl Ether
Concen: 21.666 ug/l
RT: 2.09 min Scan# 312
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion: 74 Resp: 42466
Ion Ratio Lower Upper
74 100
45 93.9 42.8 128.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.921 ug/l

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

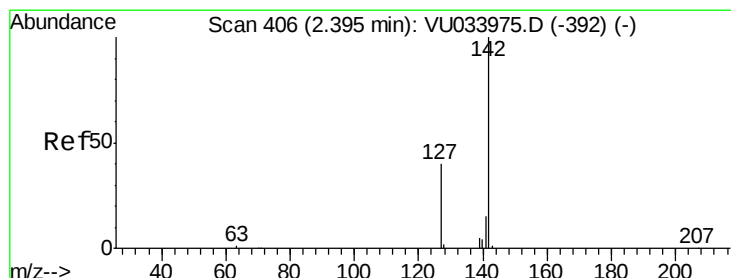
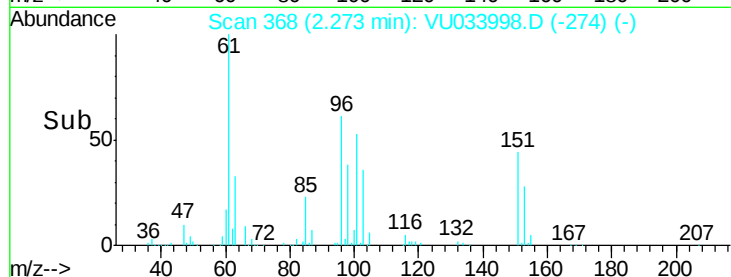
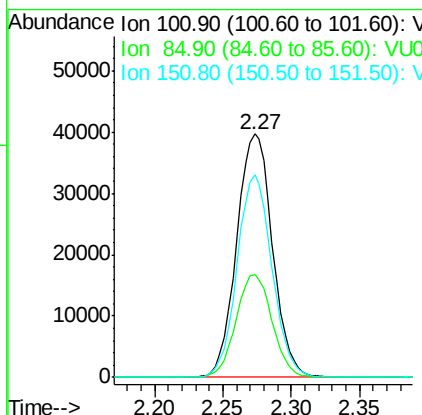
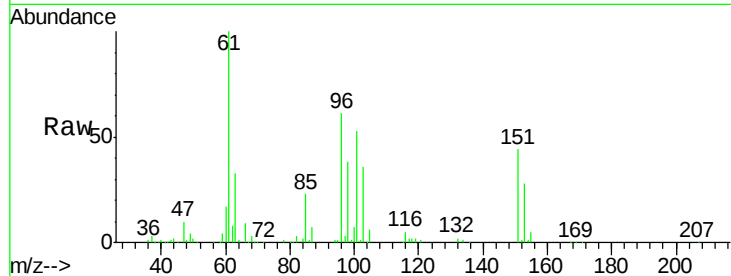
ClientSampleId :

VU0828WBS02

Tot Ion:	101	Resp:	72343
Ion Ratio	Lower	Upper	
101	100		
85	42.5	33.4	50.0
151	81.1	67.6	101.4

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#10

Methyl Iodide

Concen: 22.327 ug/l

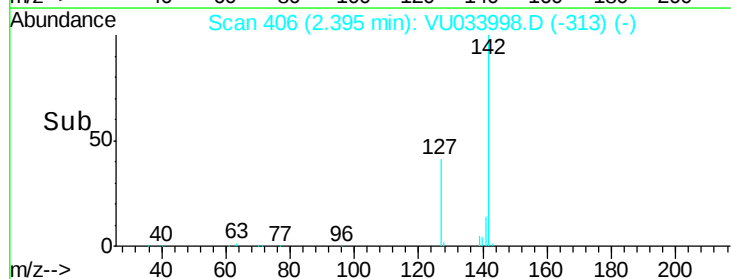
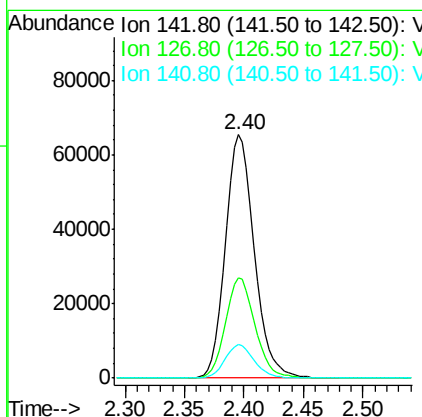
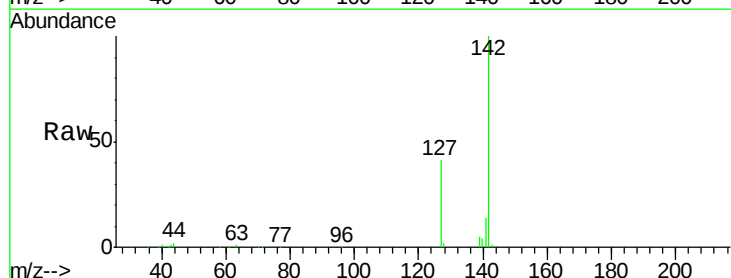
RT: 2.40 min Scan# 406

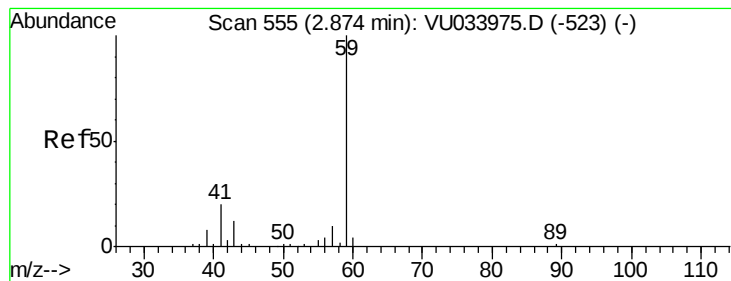
Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion:	142	Resp:	110343
Ion Ratio	Lower	Upper	
142	100		
127	42.0	32.2	48.2
141	13.8	11.8	17.8





#11

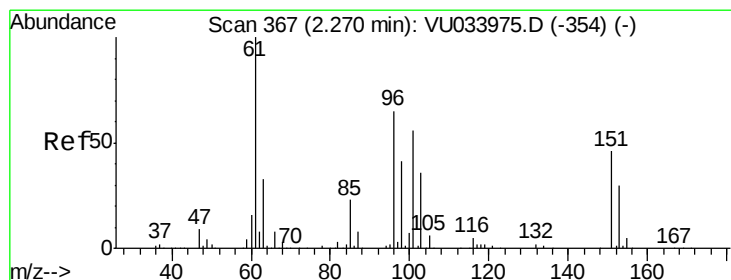
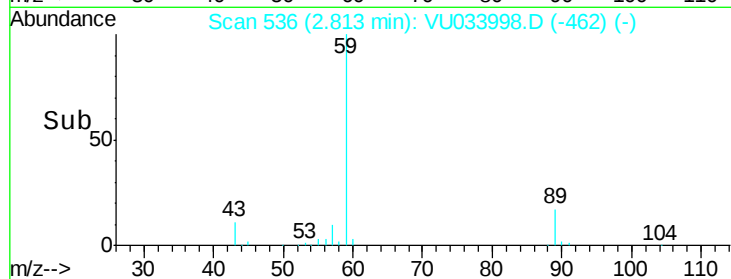
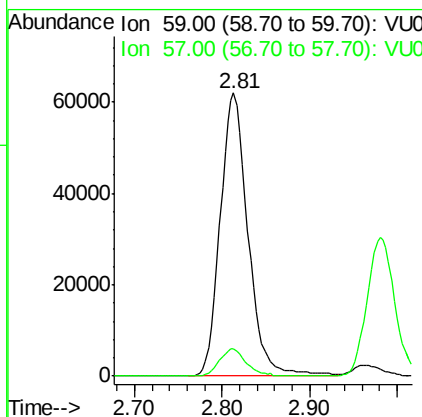
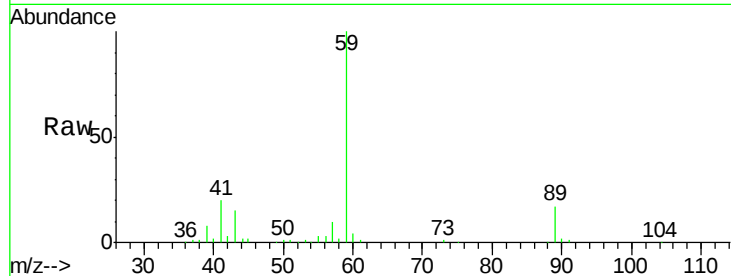
Tert butyl alcohol
 Concen: 121.622 ug/l
 RT: 2.81 min Scan# 536
 Delta R.T. -0.06 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.1	3.9	5.9#

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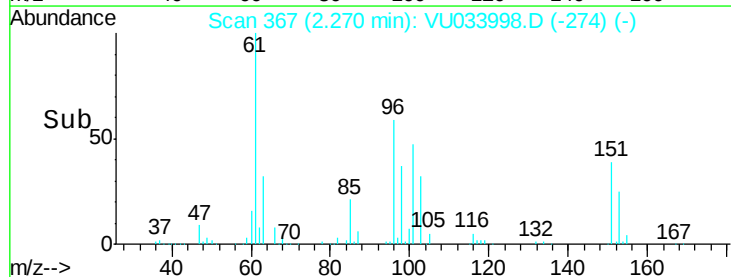
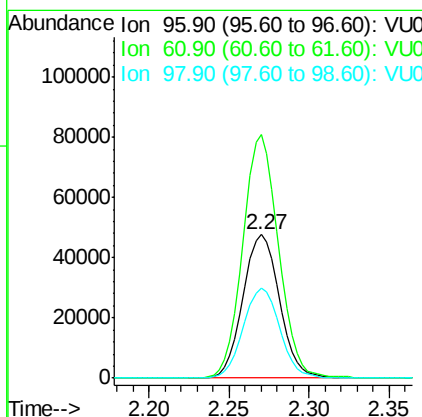
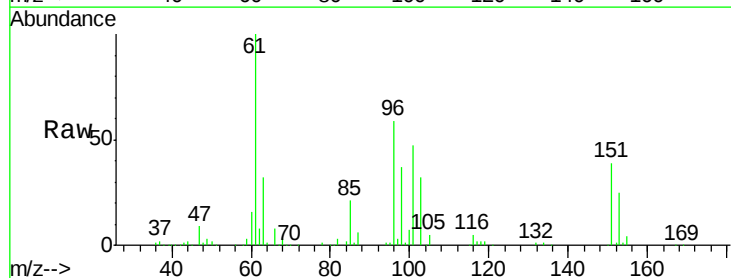
MMDadoda
 8/28/2019 10:00:44 AM

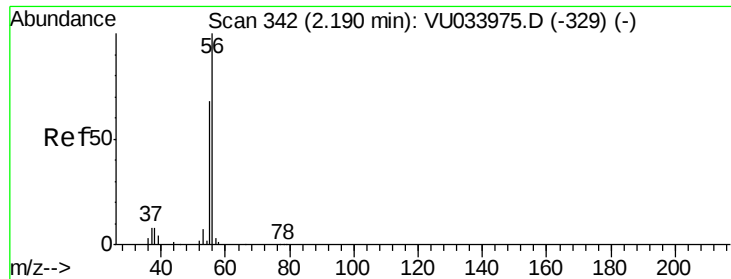


#12

1,1-Dichloroethene
 Concen: 21.665 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.4	123.3	184.9
98	62.5	50.5	75.7





#13

Acrolein

Concen: 95.783 ug/l

RT: 2.18 min Scan# 340

Delta R.T. -0.01 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 56 Resp: 34233

Ion Ratio Lower Upper

56 100

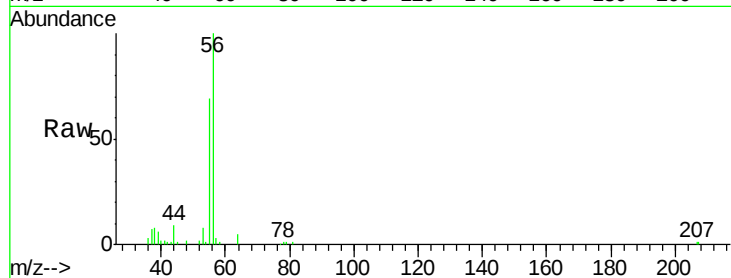
55 70.0 58.0 87.0

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VU033998.D (-249) (-)

Ion 55.00 (54.70 to 55.70): VU033998.D (-249) (-)

25000

20000

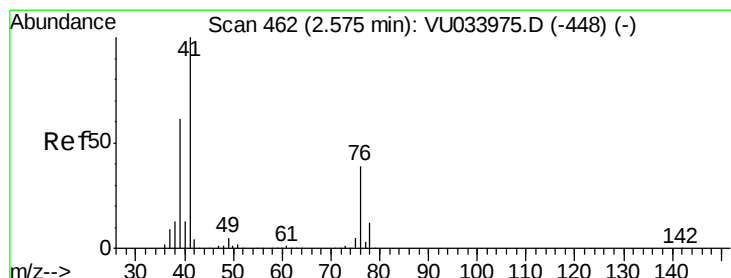
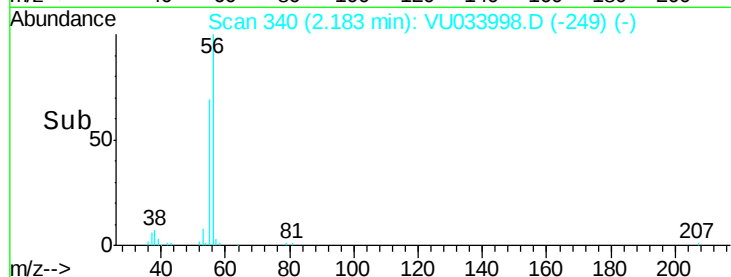
15000

10000

5000

0

Time--> 2.10 2.15 2.20 2.25



#14

Allyl chloride

Concen: 26.702 ug/l m

RT: 2.58 min Scan# 462

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

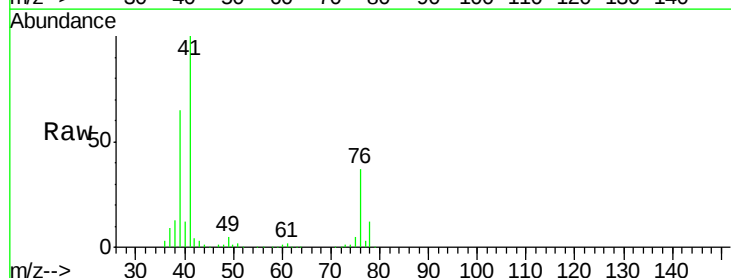
Tgt Ion: 41 Resp: 162852

Ion Ratio Lower Upper

41 100

39 58.9 45.9 68.9

76 31.4 29.4 44.2



Abundance Ion 41.00 (40.70 to 41.70): VU033998.D (-369) (-)

Ion 39.00 (38.70 to 39.70): VU033998.D (-369) (-)

Ion 75.90 (75.60 to 76.60): VU033998.D (-369) (-)

200000

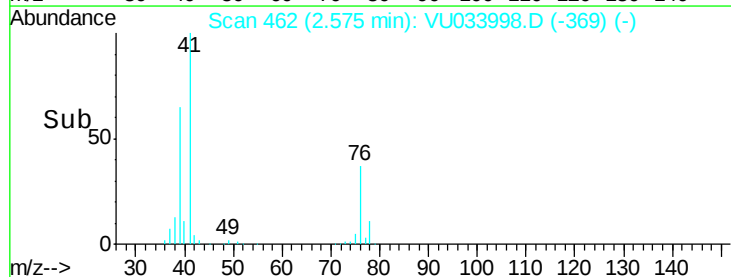
150000

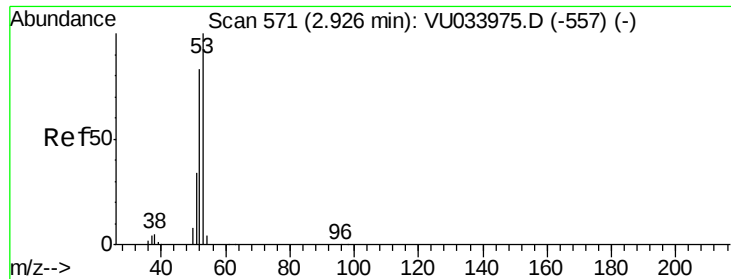
100000

50000

0

Time--> 2.45 2.50 2.55 2.60 2.65





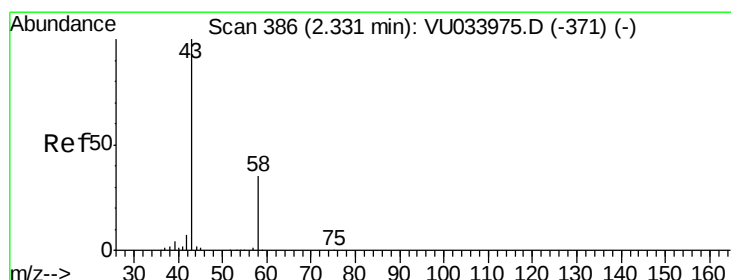
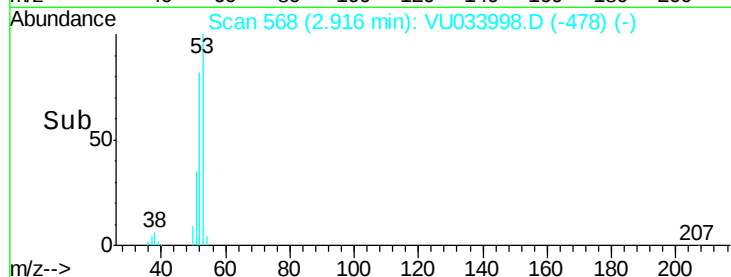
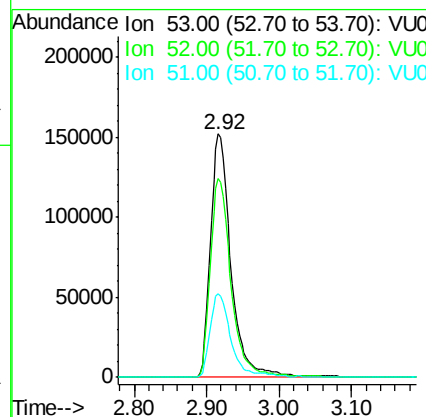
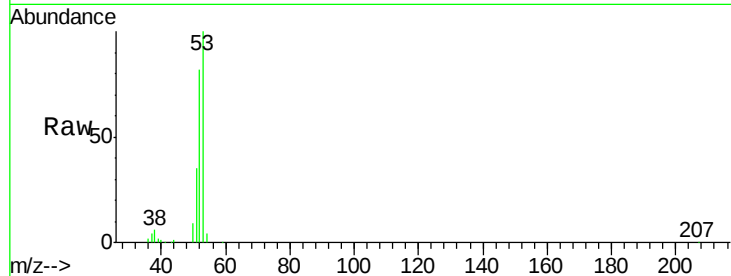
#15
 Acrylonitrile
 Concen: 131.715 ug/l
 RT: 2.92 min Scan# 568
 Delta R.T. -0.01 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.7	100.1
51	35.2	27.5	41.3

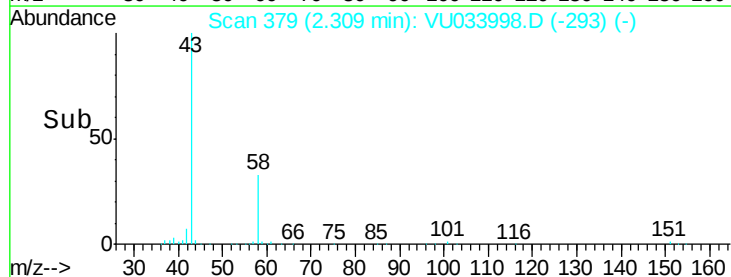
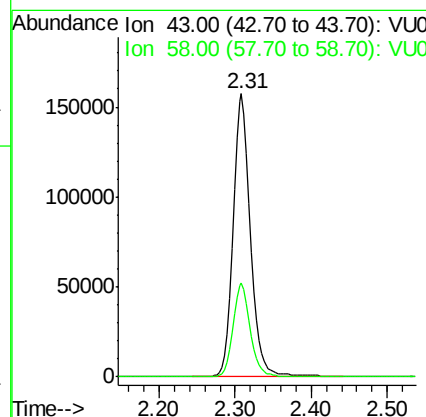
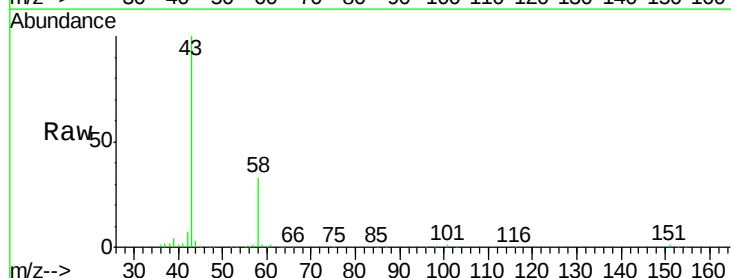
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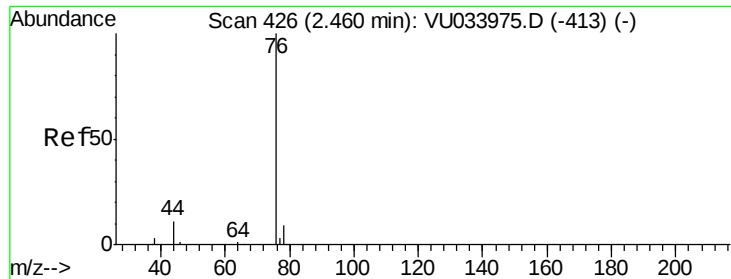
MMDadoda
 8/28/2019 10:00:44 AM



#16
 Acetone
 Concen: 120.512 ug/l
 RT: 2.31 min Scan# 379
 Delta R.T. -0.02 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.4	28.0	42.0





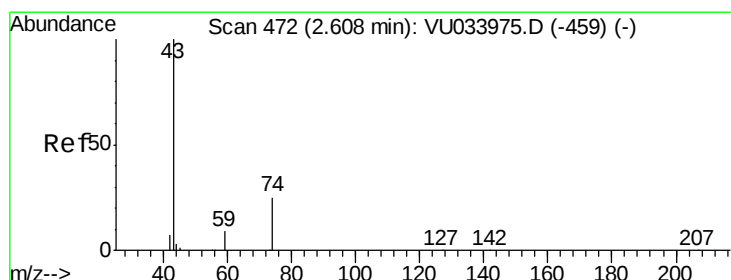
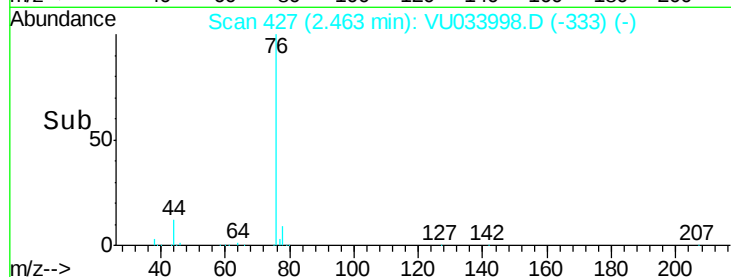
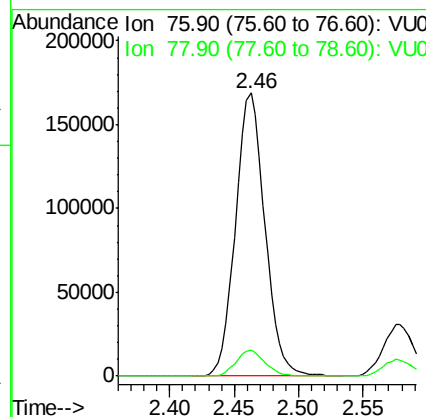
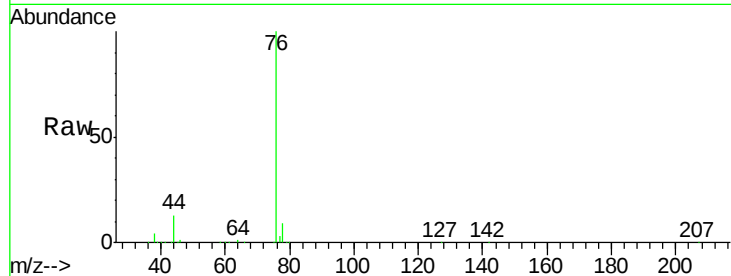
#17
Carbon Disulfide
Concen: 23.670 ug/l
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.5	11.3

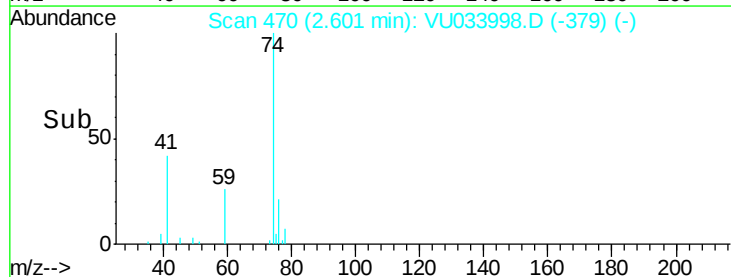
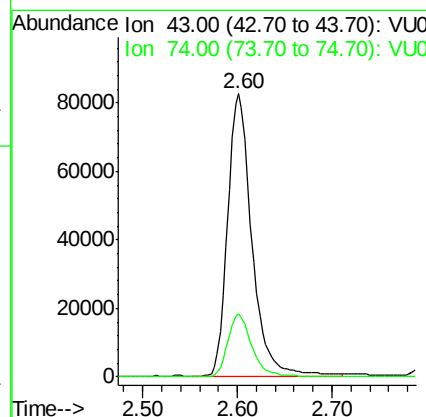
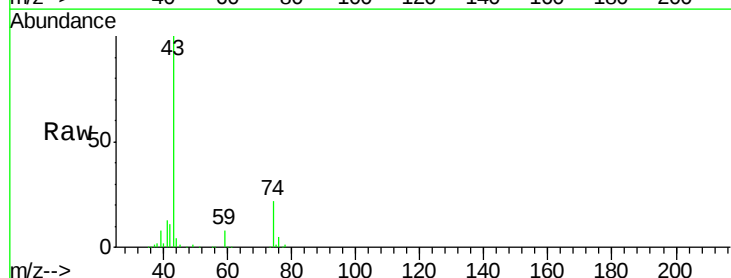
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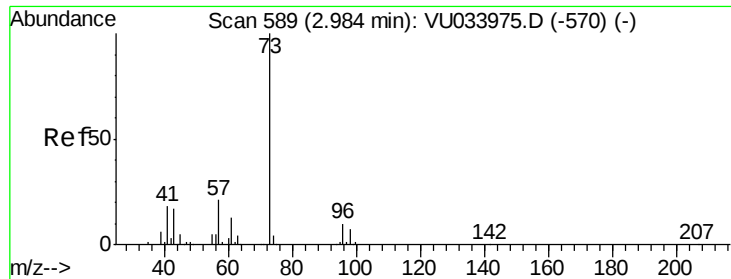
MMDadoda
8/28/2019 10:00:44 AM



#18
Methyl Acetate
Concen: 28.645 ug/l
RT: 2.60 min Scan# 470
Delta R.T. -0.01 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.4	20.5	30.7





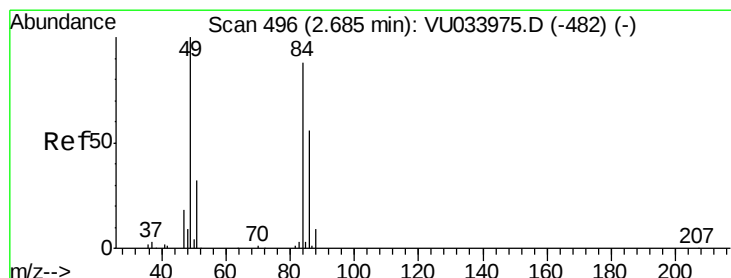
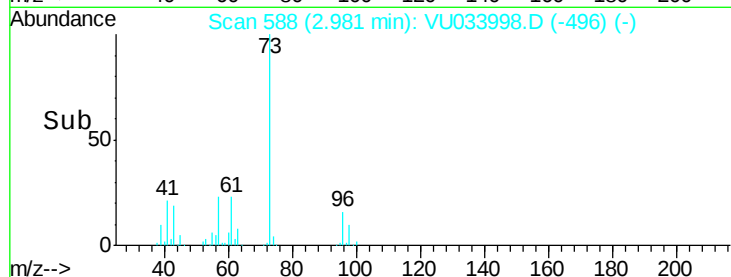
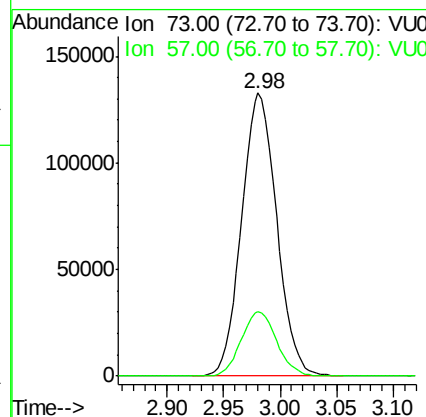
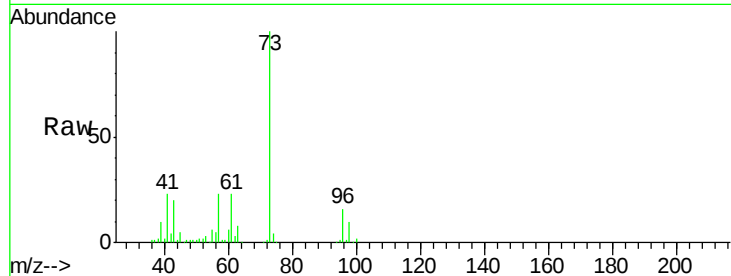
#19
Methvl tert-butvl Ether
Concen: 24.796 ug/l
RT: 2.98 min Scan# 588
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.5	26.3

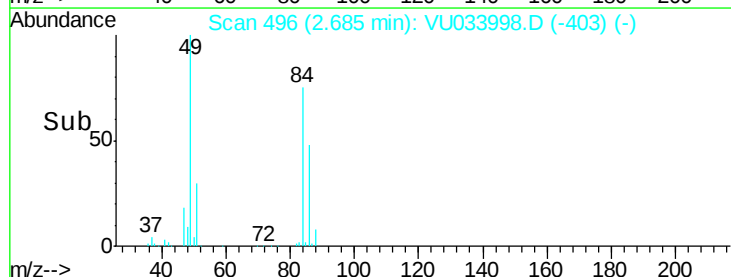
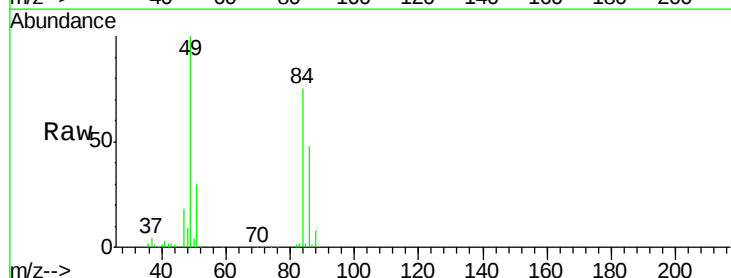
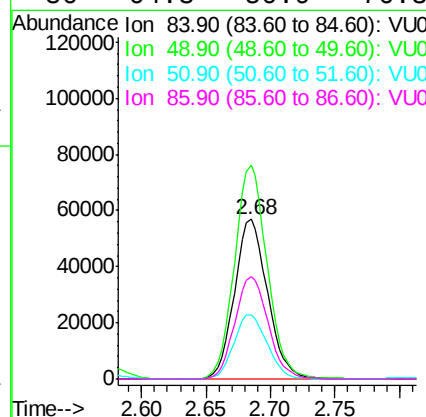
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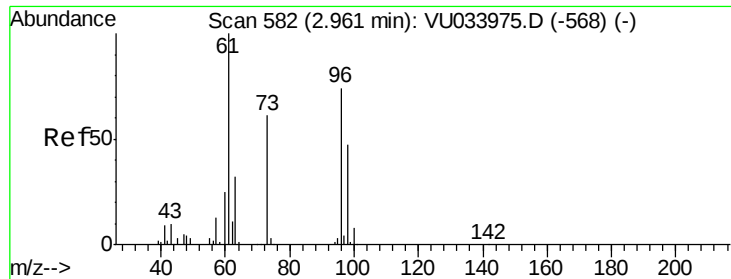
MMDadoda
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#20
Methylene Chloride
Concen: 23.005 ug/l
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
84	100		
49	133.6	91.3	136.9
51	40.2	28.9	43.3
86	64.3	50.9	76.3





#21

trans-1,2-Dichloroethene

Concen: 23.395 ug/l

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 96 Resp: 91878

Ion Ratio Lower Upper

96 100

61 151.2 108.2 162.2

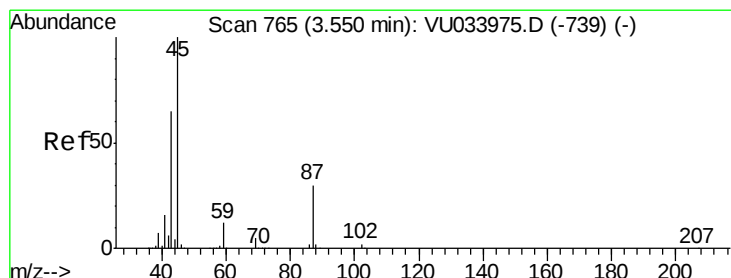
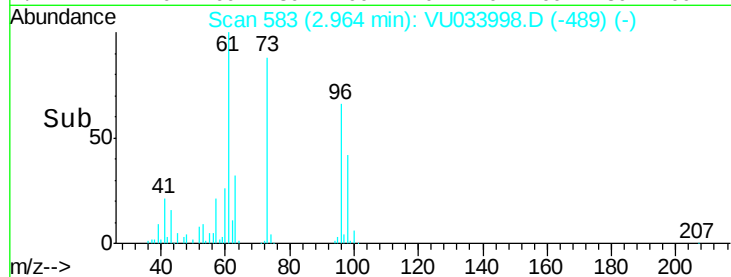
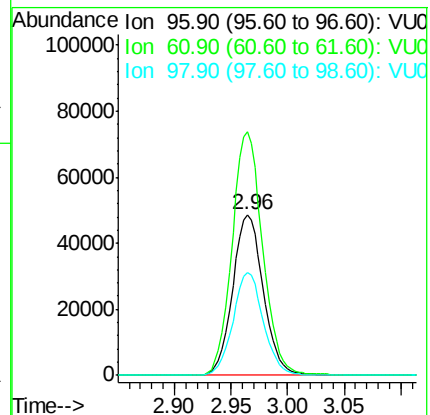
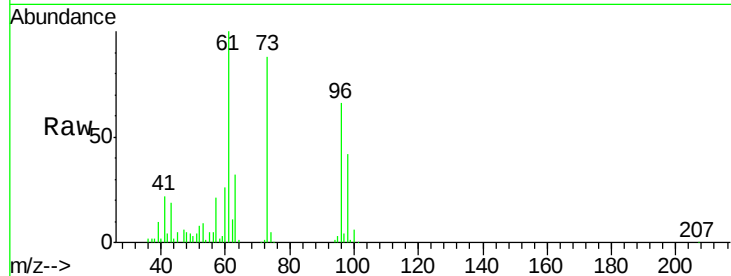
98 64.1 50.3 75.5

Manual Integrations

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#22

Diisopropyl ether

Concen: 28.385 ug/l

RT: 3.55 min Scan# 765

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion: 45 Resp: 318067

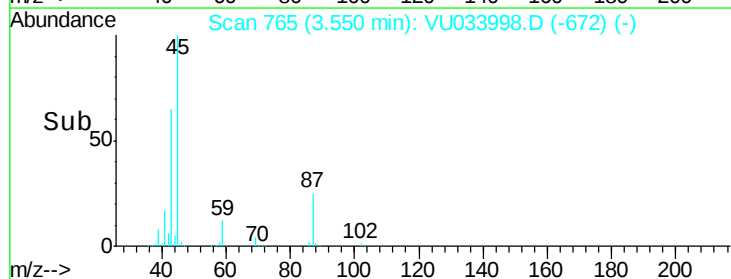
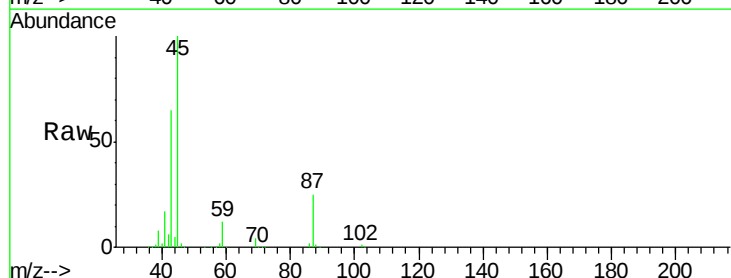
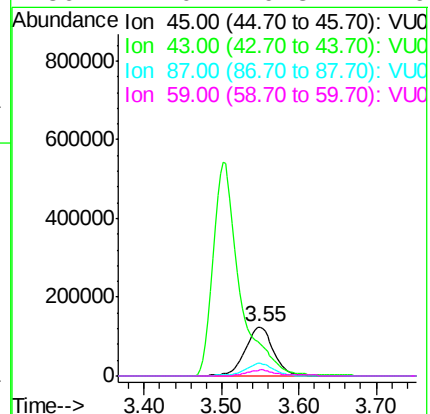
Ion Ratio Lower Upper

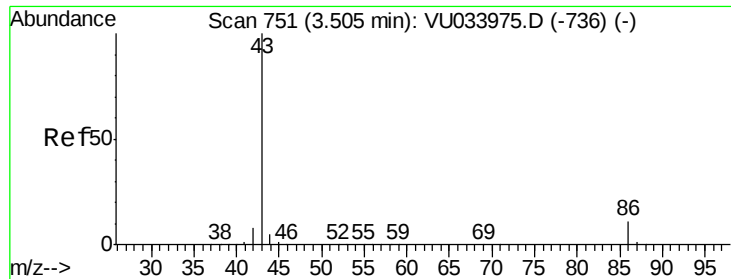
45 100

43 65.1 51.6 77.4

87 25.0 24.4 36.6

59 12.0 9.8 14.6





#23

Vinyl Acetate

Concen: 138.362 ug/l

RT: 3.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 43 Resp: 1317177

Ion Ratio Lower Upper

43 100

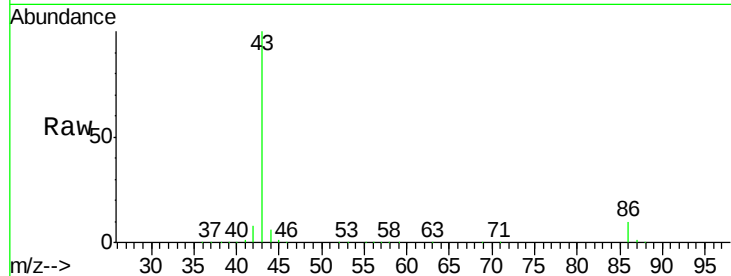
86 9.7 9.1 13.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

600000

500000

400000

300000

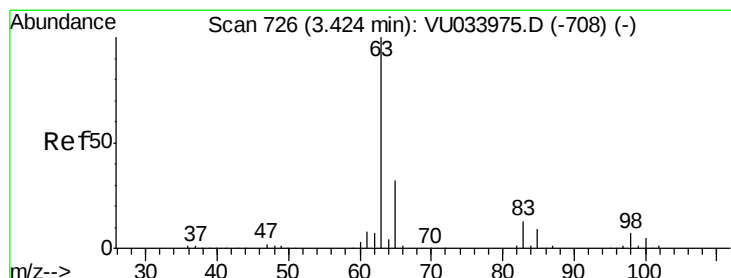
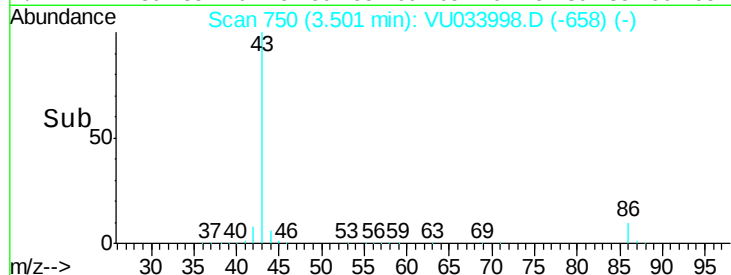
200000

100000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 25.510 ug/l

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

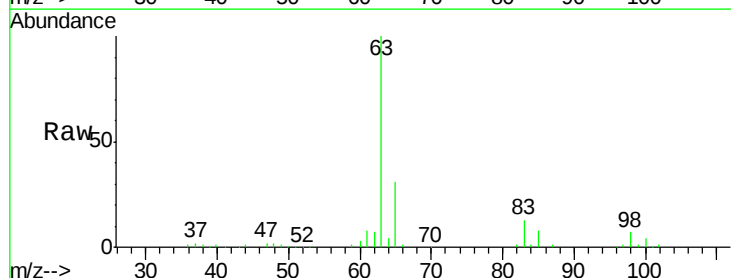
Tgt Ion: 63 Resp: 178972

Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.4

100 3.8 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

100000

80000

60000

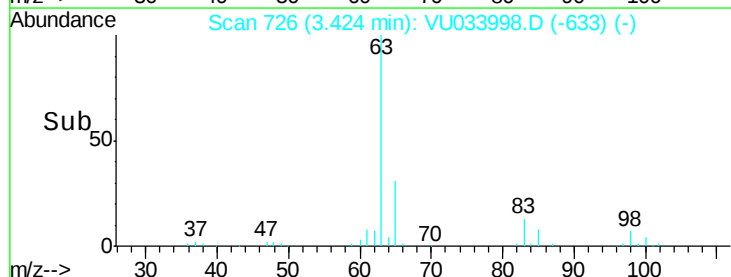
40000

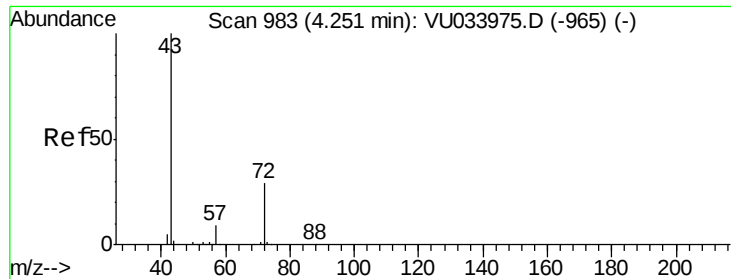
20000

0

3.30 3.40 3.50

Time-->





#25

2-Butanone

Concen: 134.985 ug/l

RT: 4.24 min Scan# 979

Delta R.T. -0.01 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 43 Resp: 402423

Ion Ratio Lower Upper

43 100

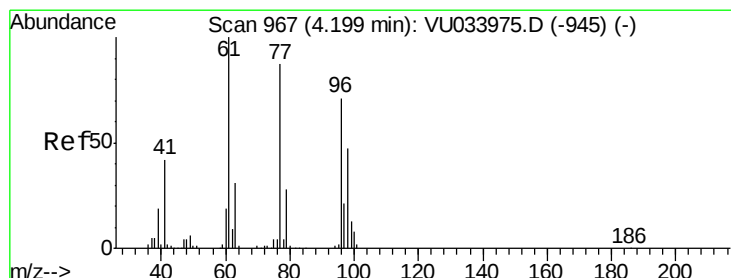
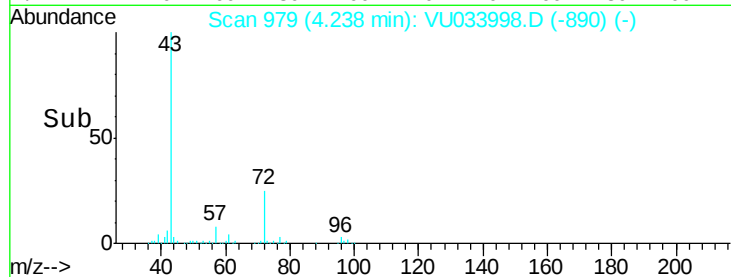
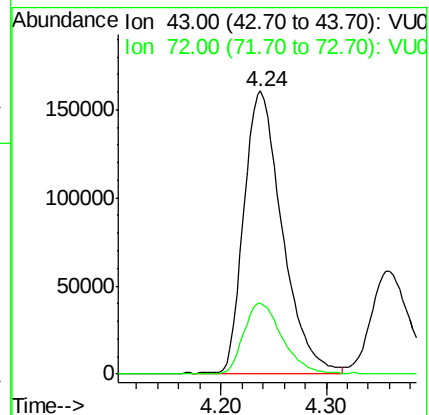
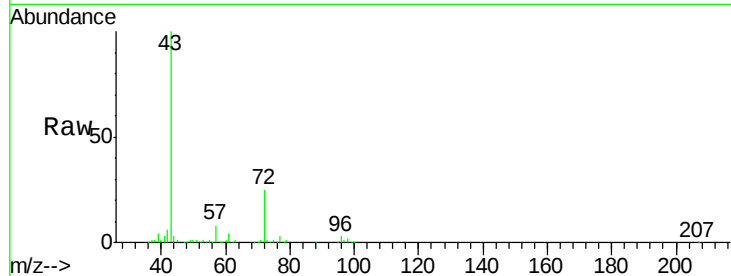
72 25.1 22.9 34.3

Manual Integrations

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MMDadoda

8/28/2019 10:00:44 AM



#26

2,2-Dichloropropane

Concen: 18.410 ug/l

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033998.D

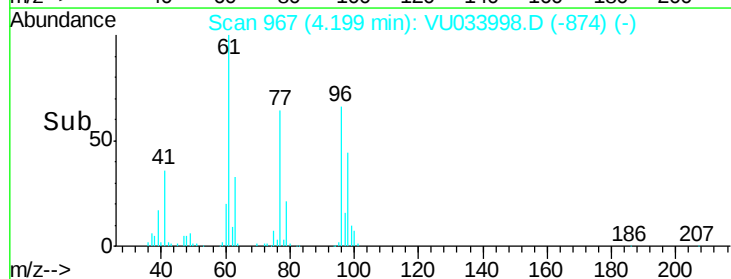
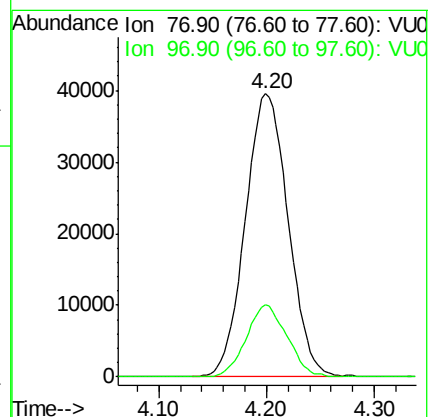
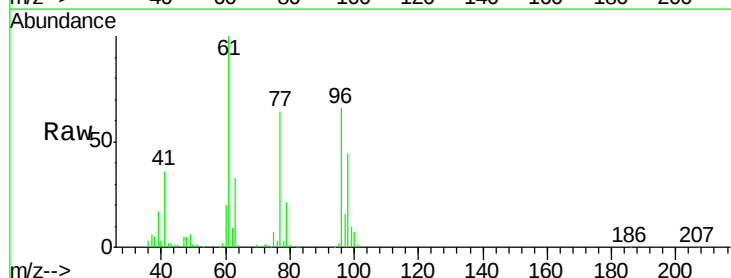
Acq: 28 Aug 2019 02:39

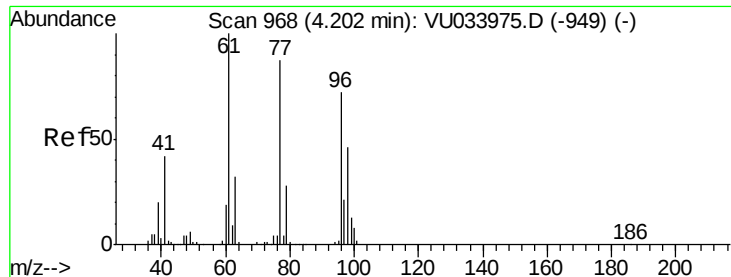
Tgt Ion: 77 Resp: 109212

Ion Ratio Lower Upper

77 100

97 24.0 12.0 36.0





#27

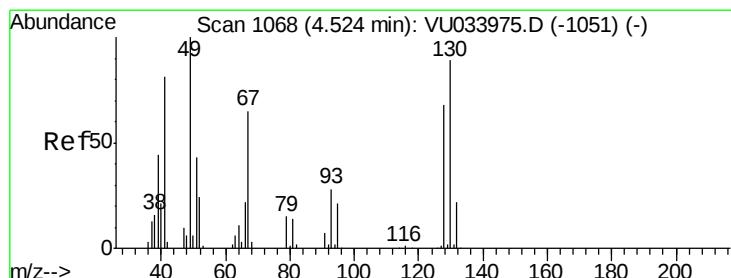
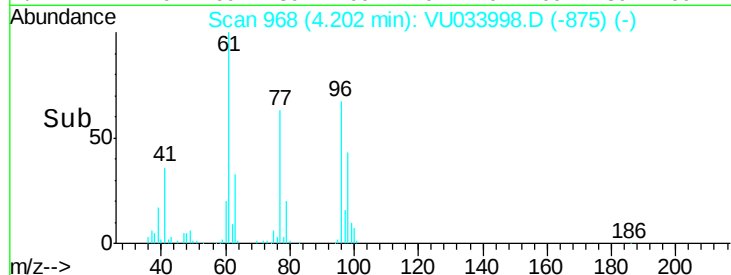
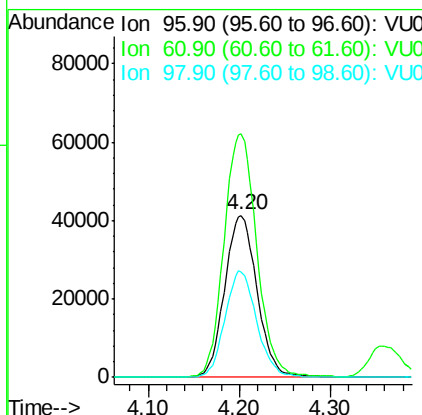
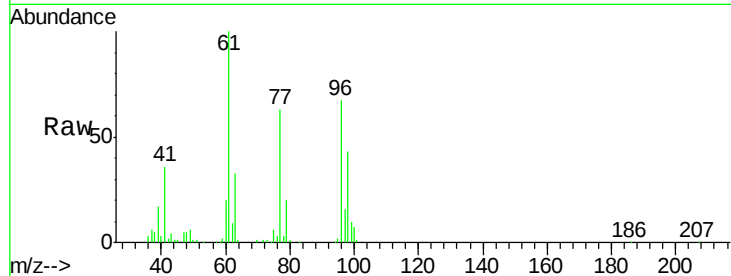
cis-1,2-Dichloroethene
Concen: 23.307 ug/l
RT: 4.20 min Scan# 968
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	151.4	0.0	287.2	
98	64.0	0.0	131.8	

Manual Integrations
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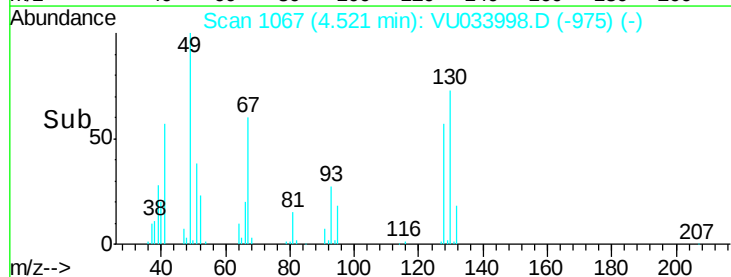
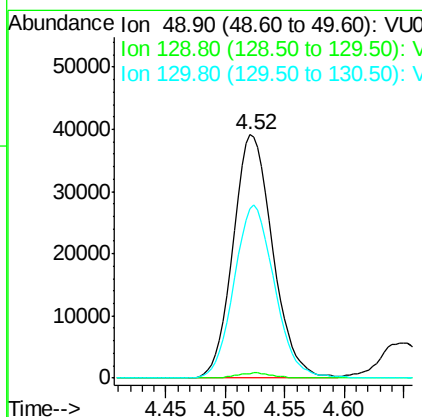
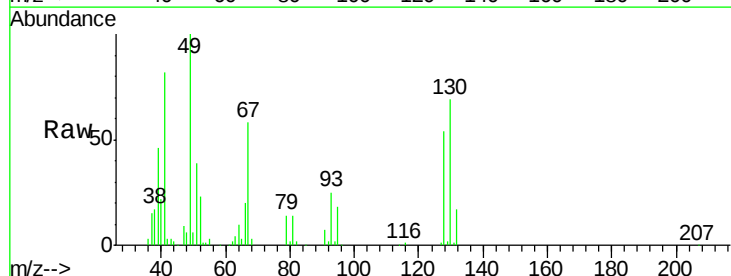
MMDadoda
8/28/2019 10:00:44 AM

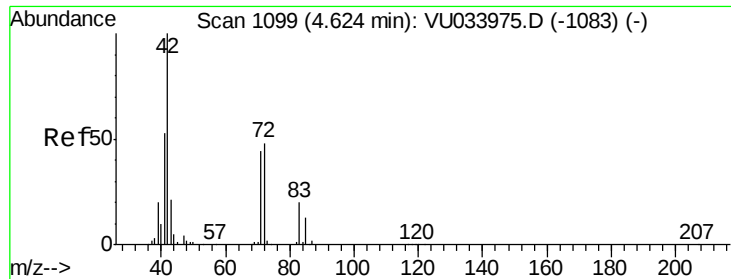


#28

Bromochloromethane
Concen: 28.039 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.9	0.0	4.6	
130	72.1	71.0	106.6	





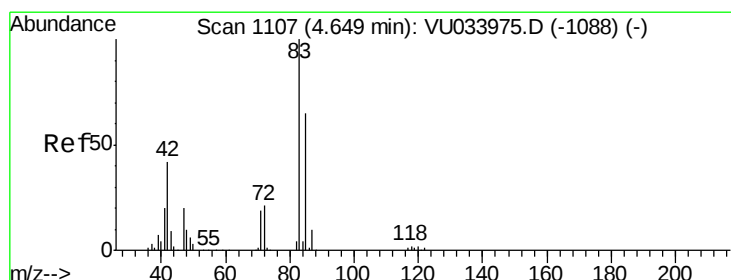
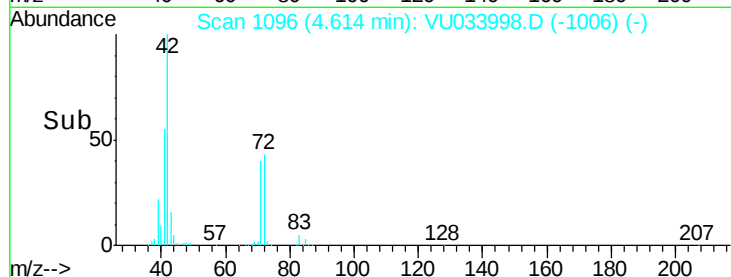
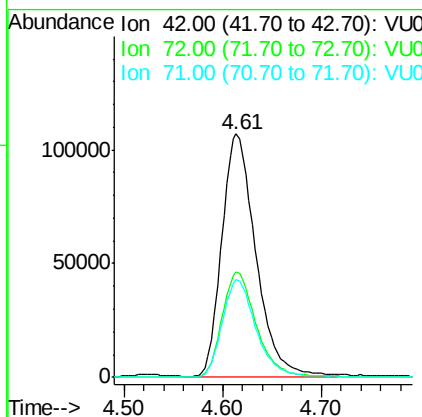
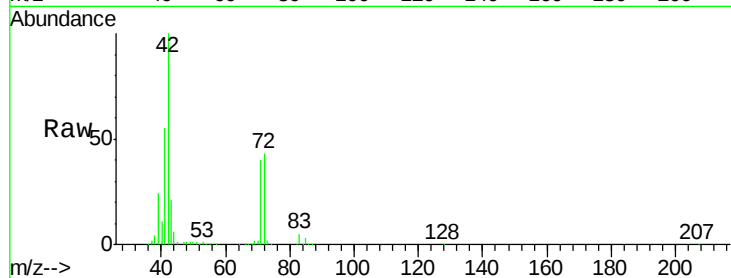
#29
Tetrahydrofuran
Concen: 138.075 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. -0.01 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	38.9	58.3
71	40.3	35.7	53.5

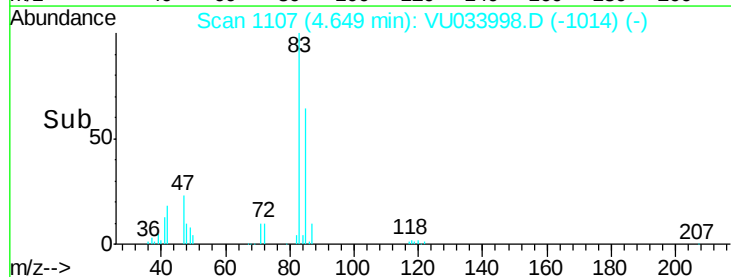
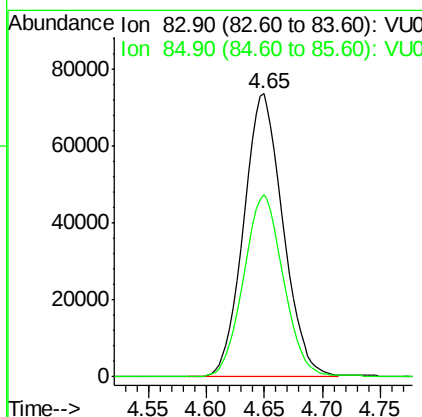
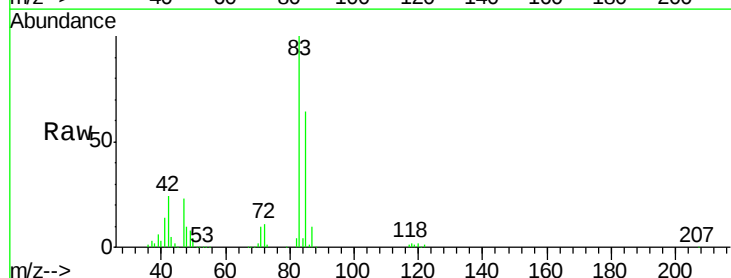
Manual Integrations
APPROVED

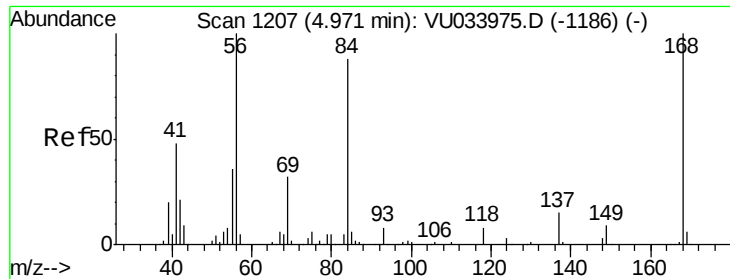
MMDadoda
8/28/2019 10:00:44 AM



#30
Chloroform
Concen: 24.259 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.1	78.1





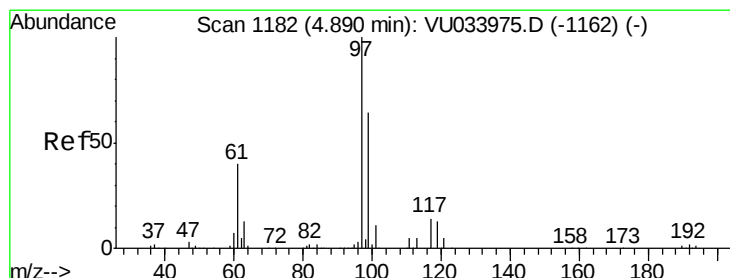
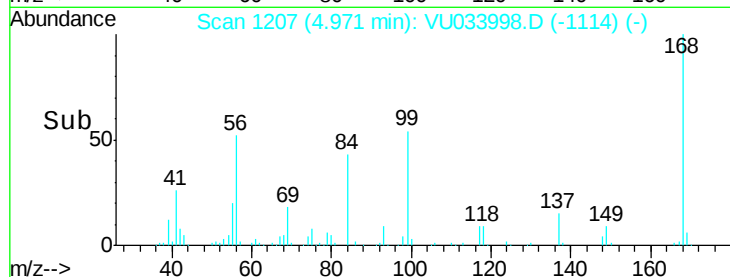
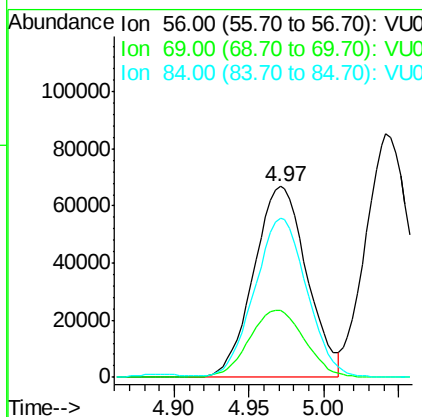
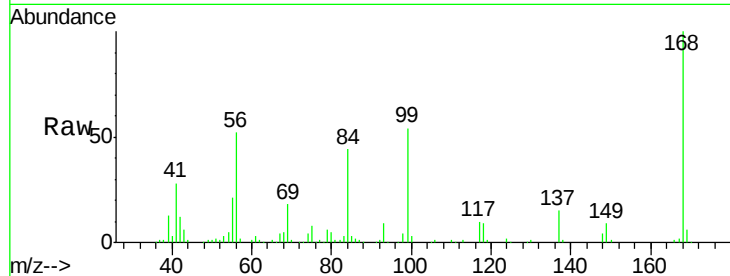
#31
Cyclohexane
Concen: 25.703 ug/l
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.2	25.9	38.9
84	82.7	70.4	105.6

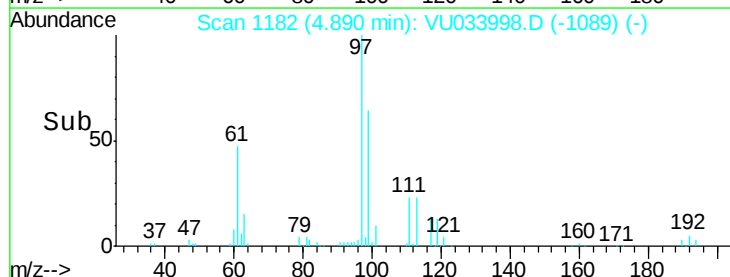
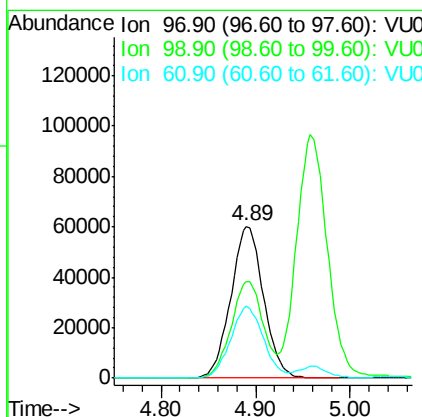
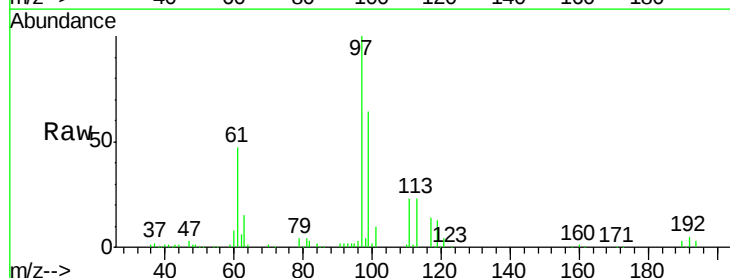
Manual Integrations
APPROVED

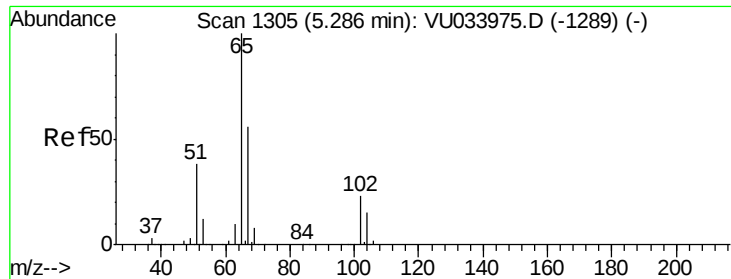
MMDadoda
8/28/2019 10:00:44 AM



#32
1,1,1-Trichloroethane
Concen: 23.877 ug/l
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.6	77.4
61	47.3	32.7	49.1





#33

1,2-Dichloroethane-d4

Concen: 62.881 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 65 Resp: 273215

Ion Ratio Lower Upper

65 100

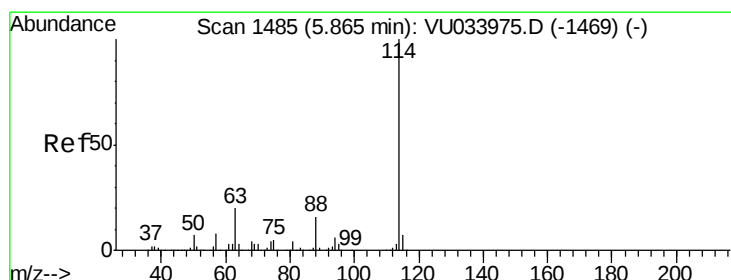
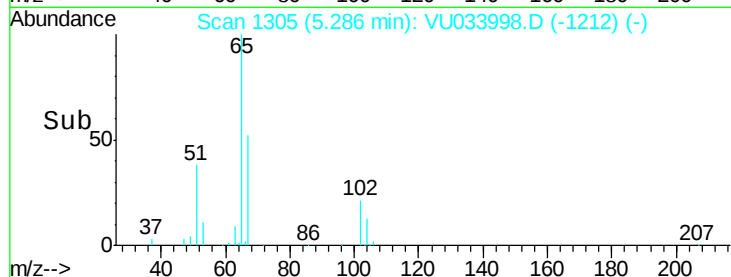
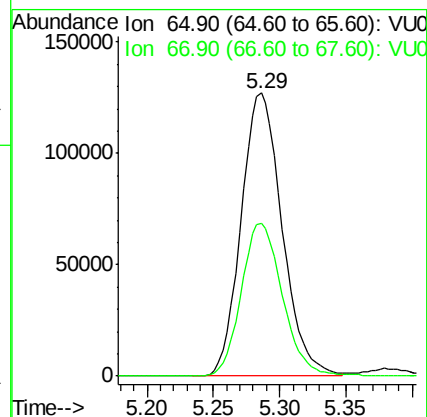
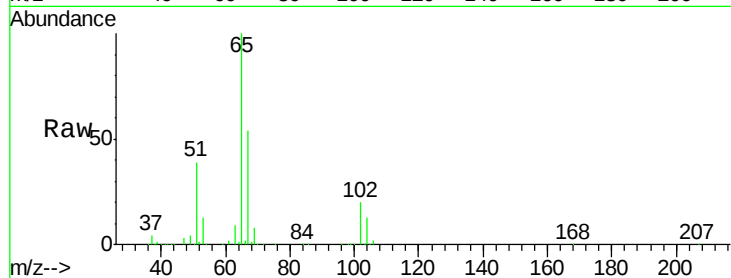
67 54.3 0.0 111.0

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

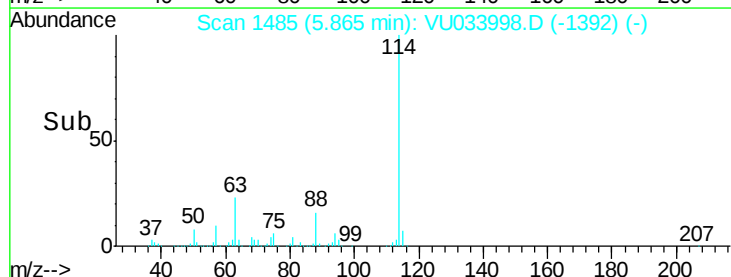
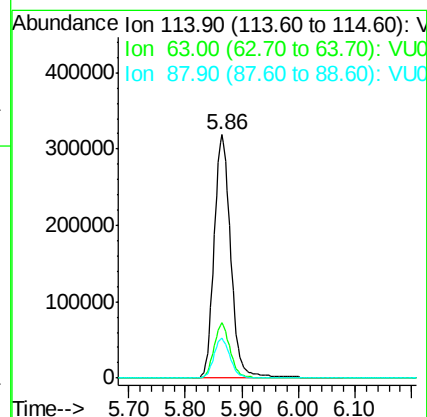
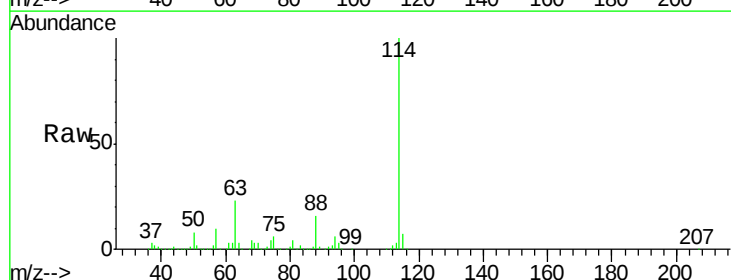
Tgt Ion: 114 Resp: 650673

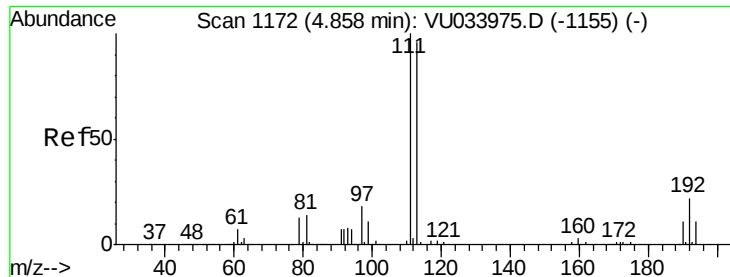
Ion Ratio Lower Upper

114 100

63 22.6 0.0 39.0

88 16.4 0.0 31.2





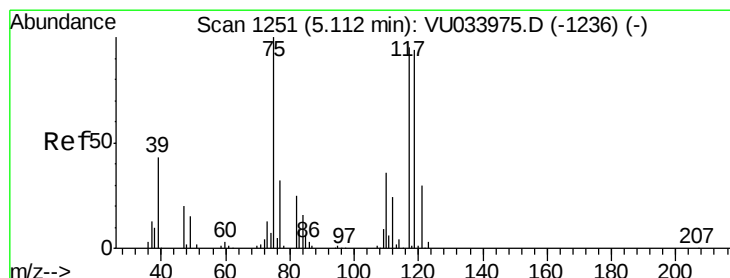
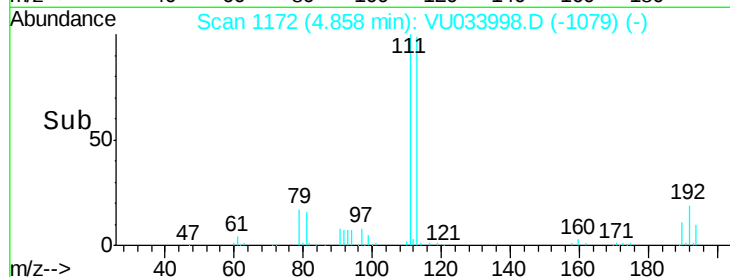
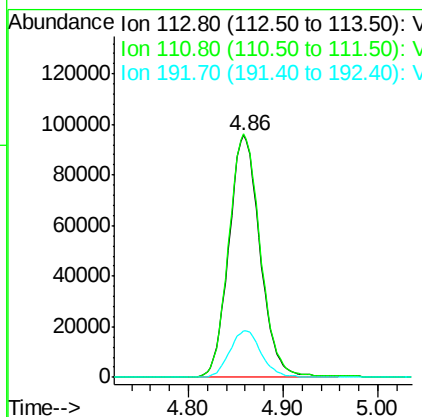
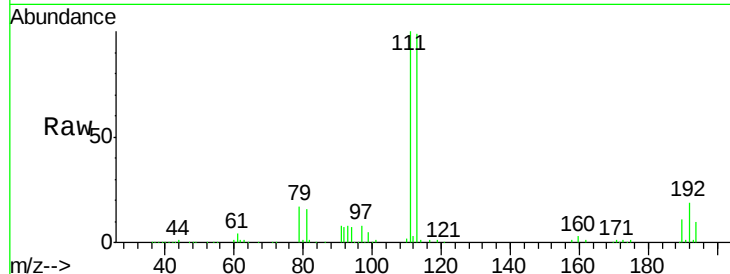
#35
Dibromofluoromethane
Concen: 50.212 ug/l
RT: 4.86 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	219617		
111	101.4	81.7	122.5	
192	19.6	18.6	27.8	

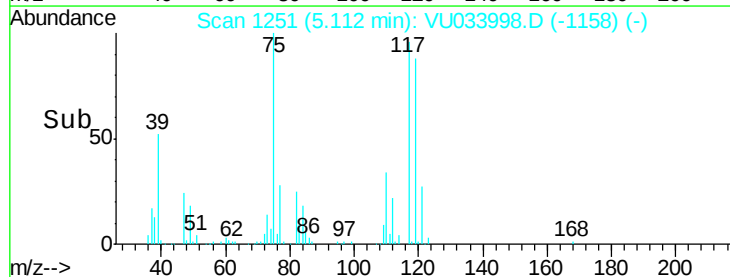
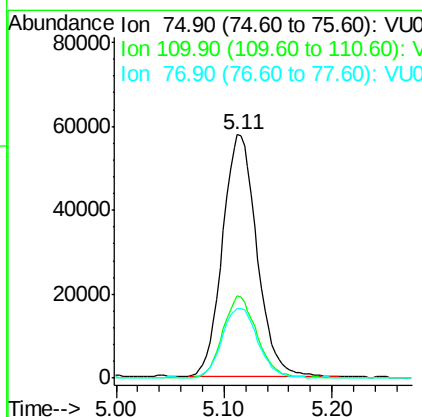
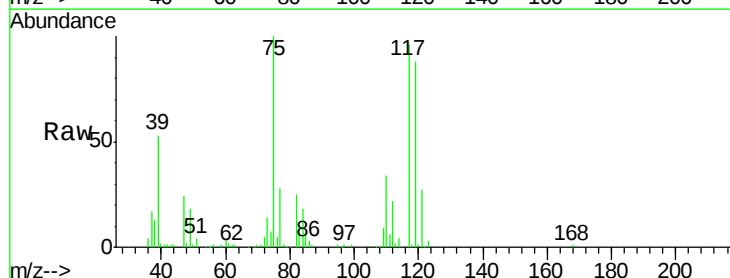
Manual Integrations
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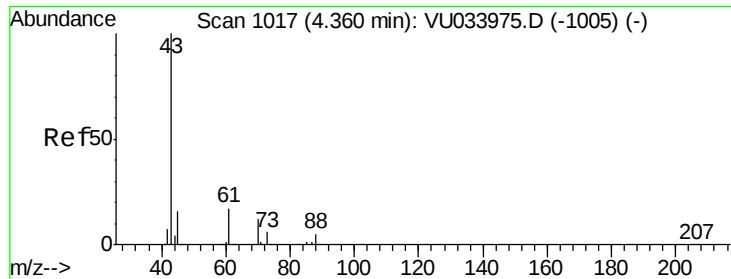
MMDadoda
8/28/2019 10:00:44 AM



#36
1,1-Dichloropropene
Concen: 21.375 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	127386		
110	33.8	18.2	54.6	
77	29.8	24.8	37.2	





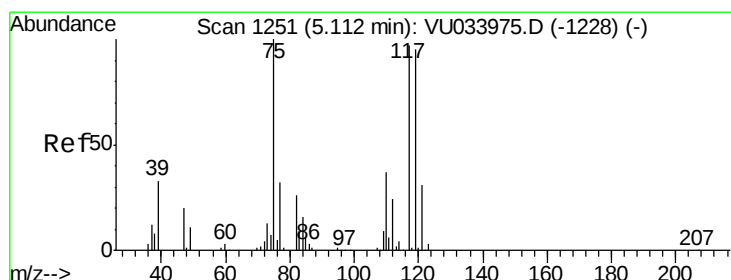
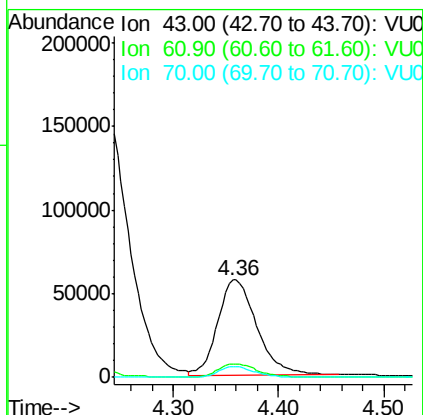
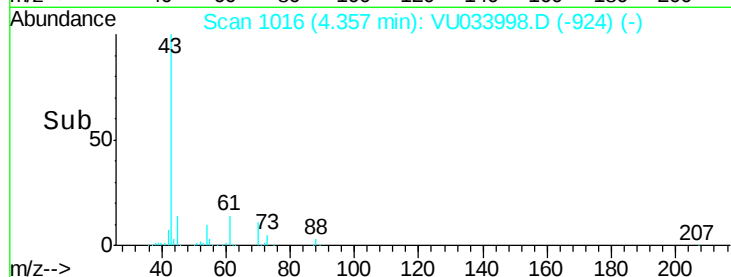
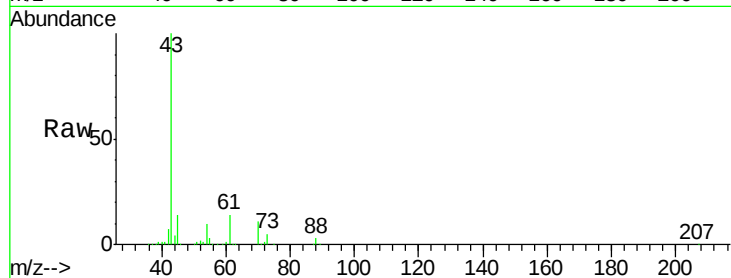
#37
Ethyl Acetate
Concen: 24.606 ug/l
RT: 4.36 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	12.0	18.0
70	10.4	9.2	13.8

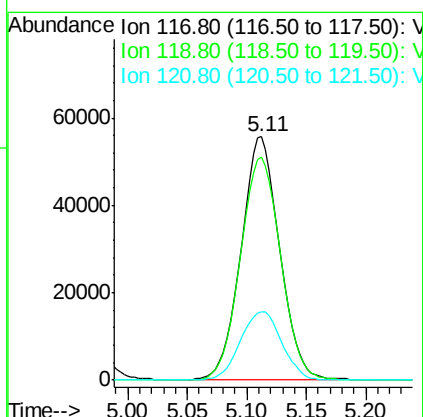
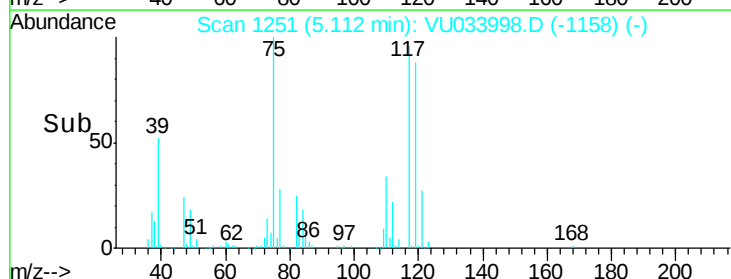
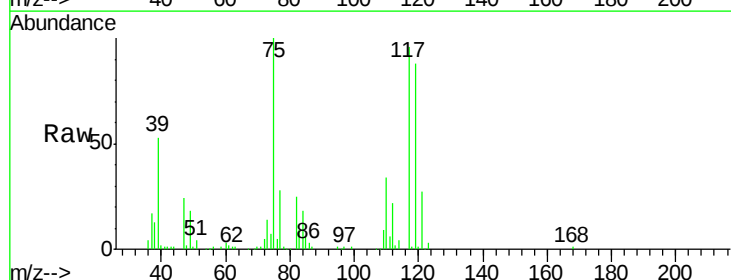
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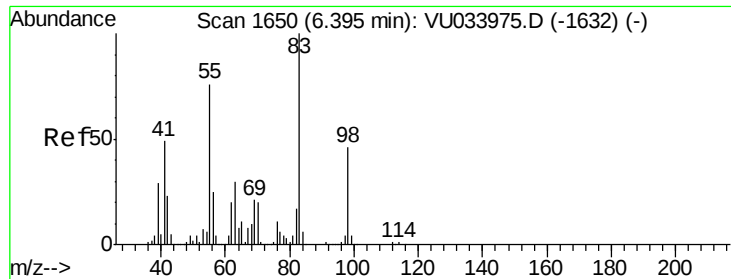
MMDadoda
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#38
Carbon Tetrachloride
Concen: 20.442 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.9	78.4	117.6
121	28.4	25.4	38.2





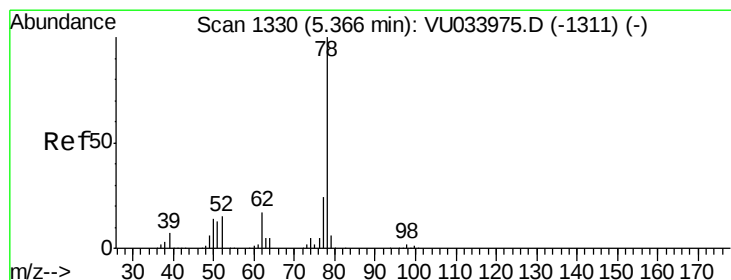
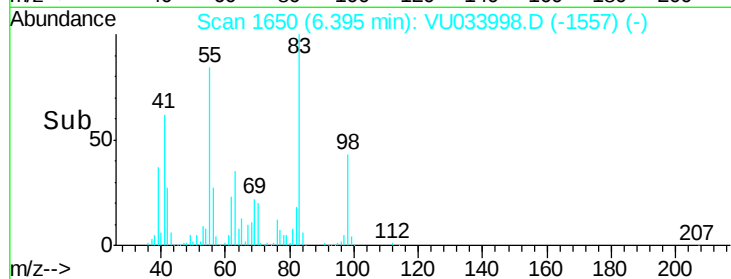
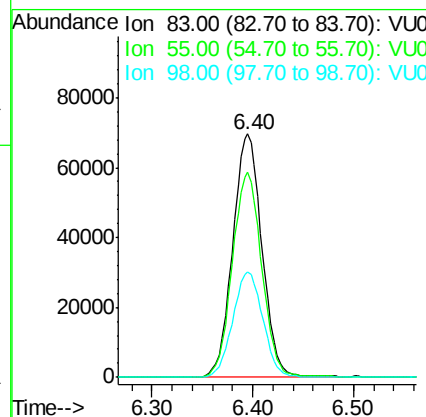
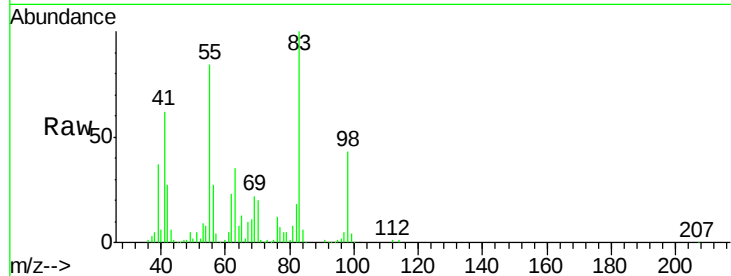
#39
Methvlcvclohexane
Concen: 19.941 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	84.1	60.8	91.2	
98	43.3	36.5	54.7	

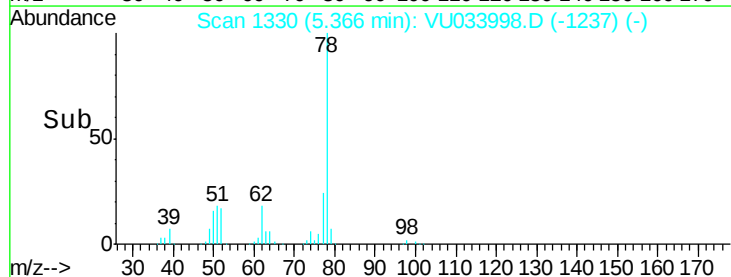
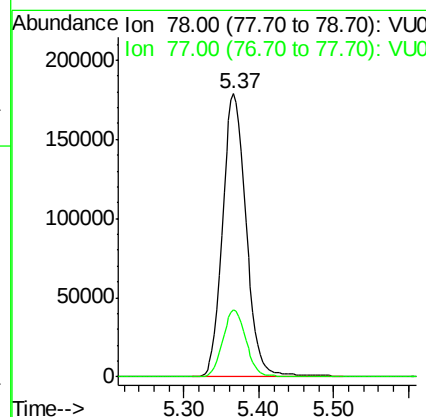
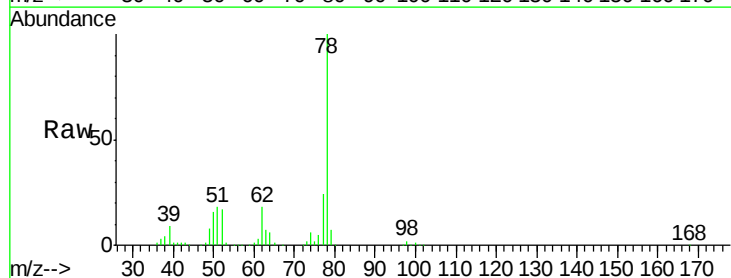
Manual Integrations
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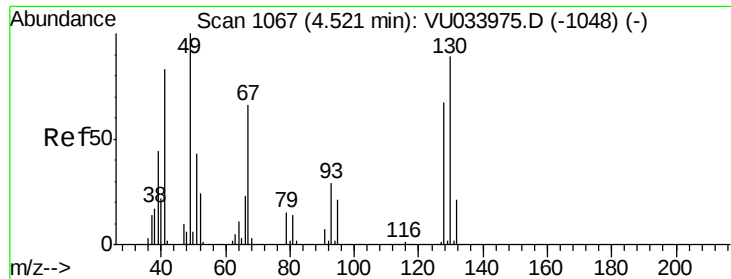
MMDadoda
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#40
Benzene
Concen: 22.081 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.8	19.2	28.8	





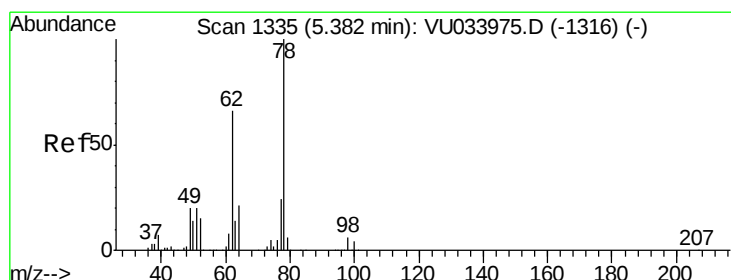
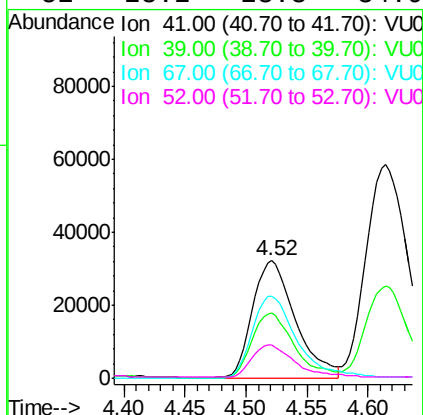
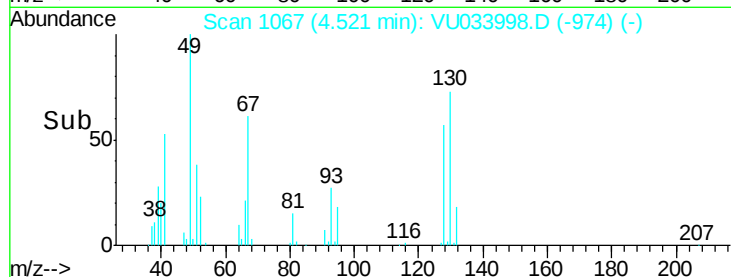
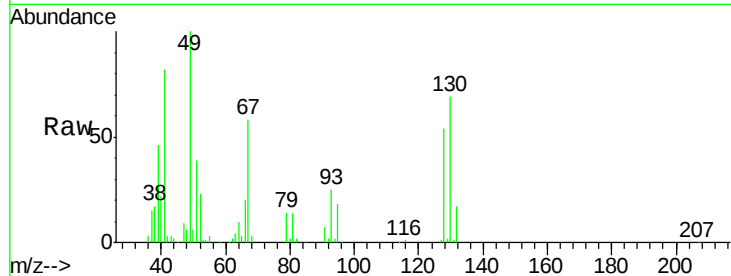
#41
Methacrylonitrile
Concen: 25.118 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.7	41.5	62.3	
67	73.8	65.0	97.6	
52	28.2	23.3	34.9	

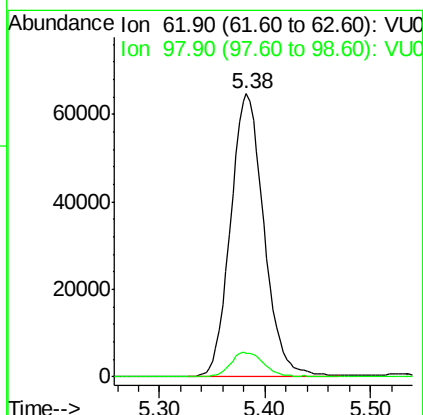
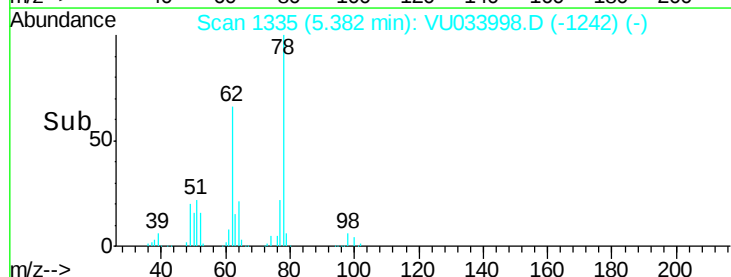
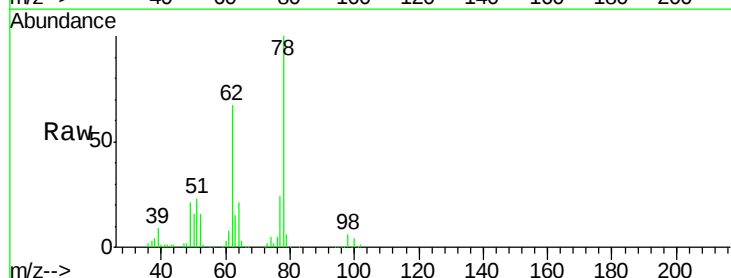
Manual Integrations
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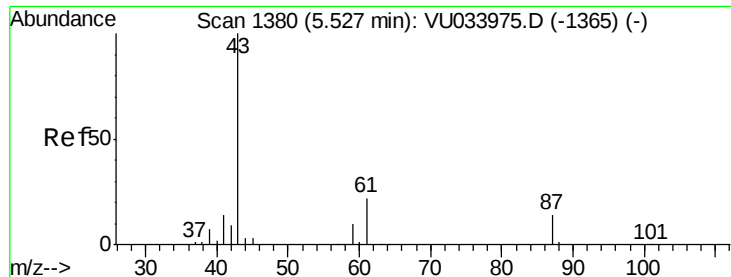
MMDadoda
8/28/2019 10:00:44 AM



#42
1,2-Dichloroethane
Concen: 23.738 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.7	0.0	20.0	





#43

Isopropyl Acetate

Concen: 24.569 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

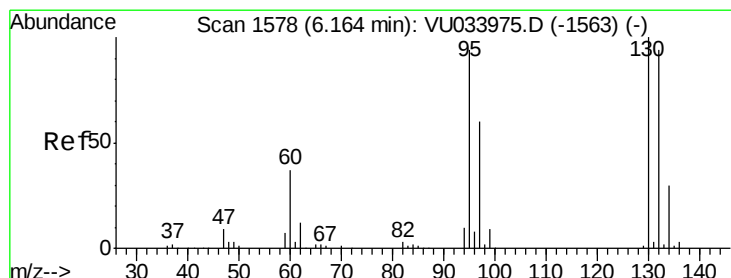
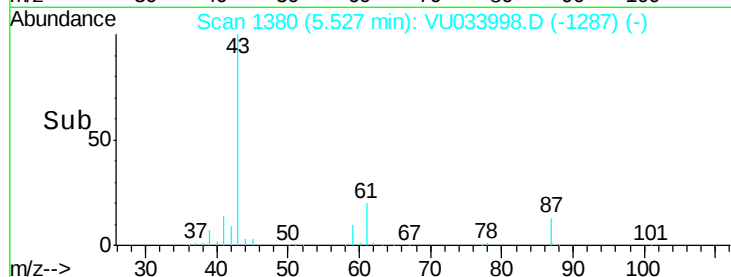
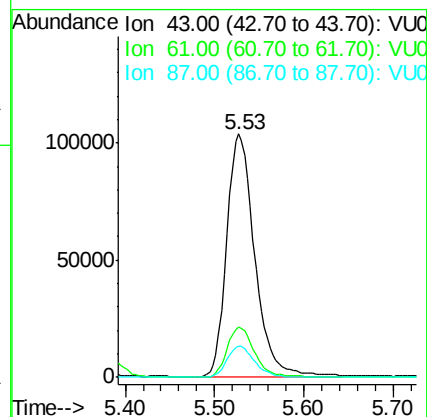
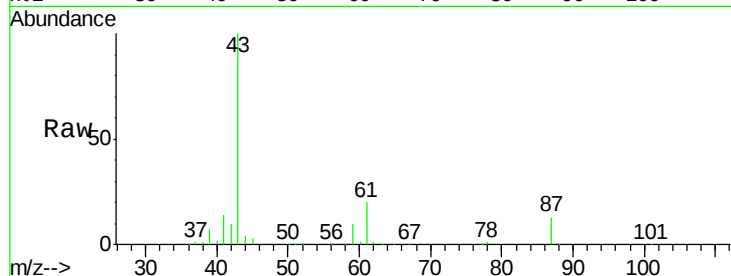
ClientSampleId :

VU0828WBS02

Tot Ion:	43	Resp:	225176
Ion	Ratio	Lower	Upper
43	100		
61	20.3	17.8	26.8
87	12.7	11.9	17.9

Manual Integrations
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#44

Trichloroethene

Concen: 19.239 ug/l

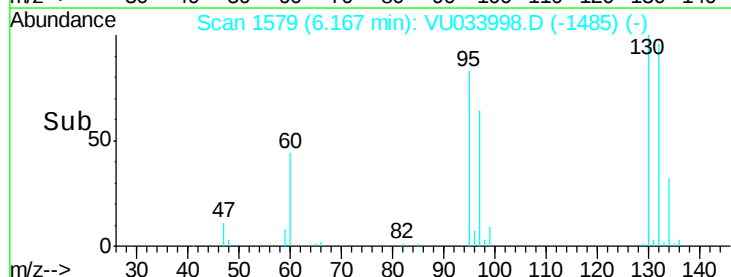
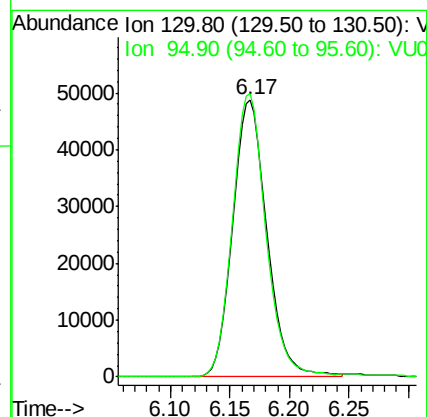
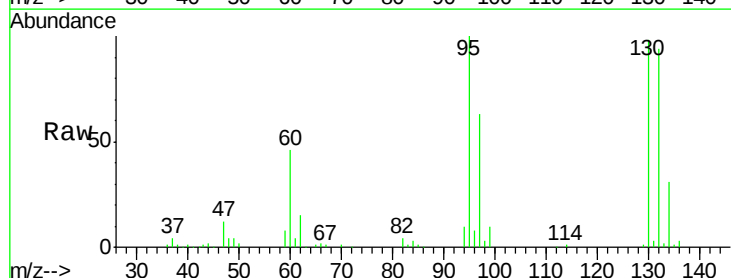
RT: 6.17 min Scan# 1579

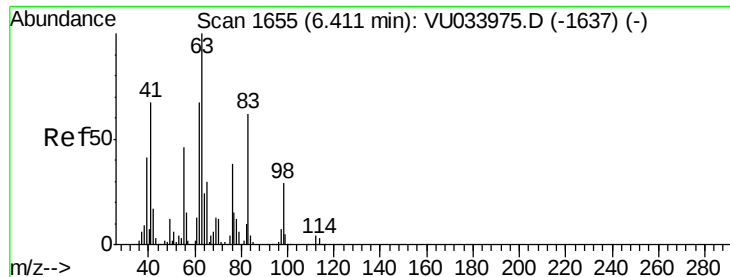
Delta R.T. 0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion:	130	Resp:	97202
Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	187.6





#45

1,2-Dichloropropane

Concen: 23.096 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 63 Resp: 109487

Ion Ratio Lower Upper

63 100

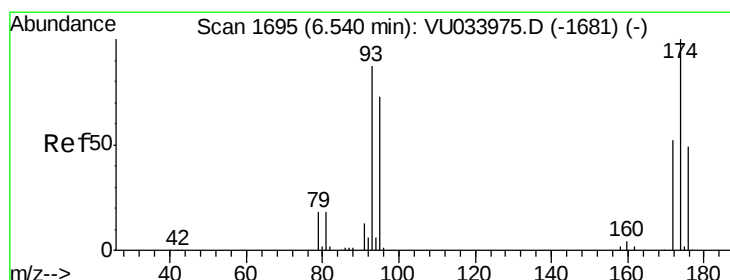
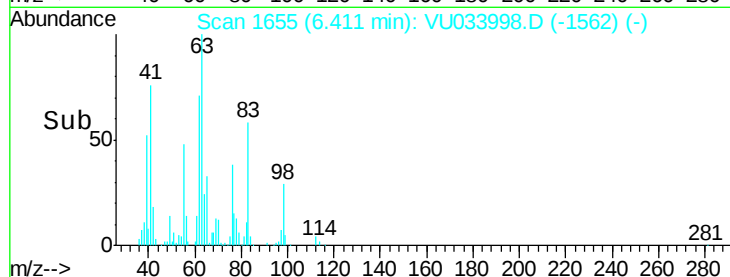
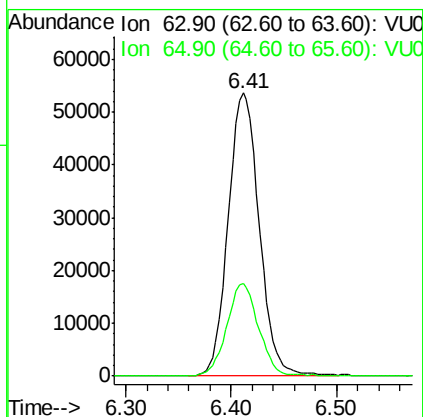
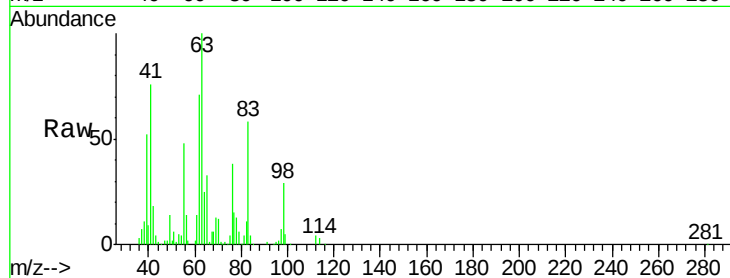
65 32.6 24.3 36.5

Manual Integrations

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8/28/2019 10:00:44 AM



#46

Dibromomethane

Concen: 21.995 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

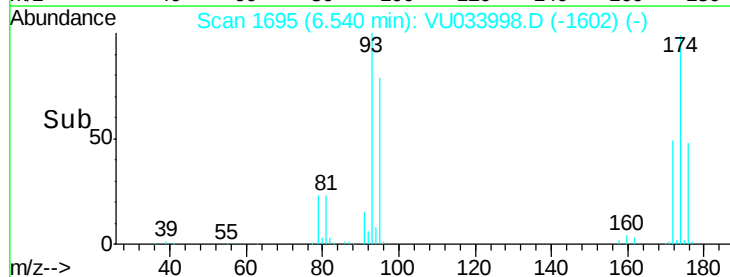
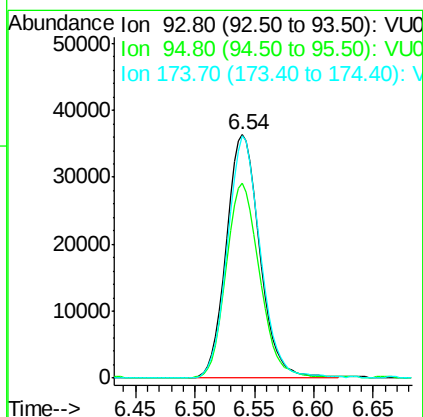
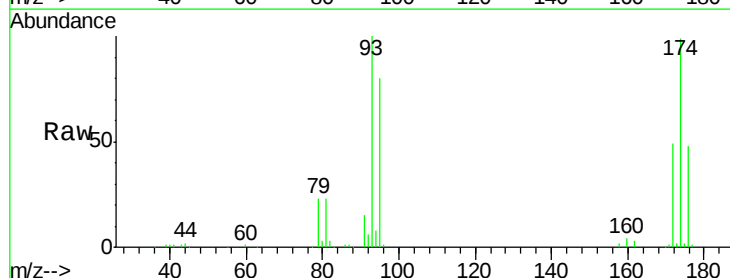
Tgt Ion: 93 Resp: 70909

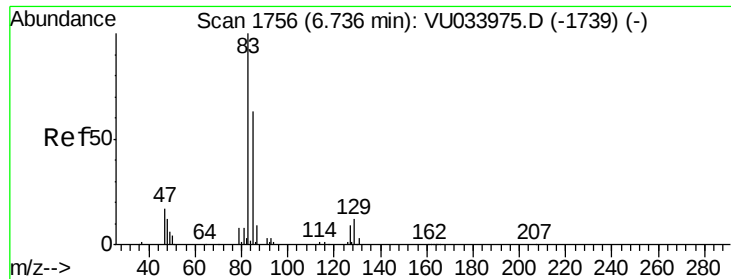
Ion Ratio Lower Upper

93 100

95 80.6 66.2 99.4

174 97.8 92.2 138.2





#47

Bromodichloromethane

Concen: 22.083 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

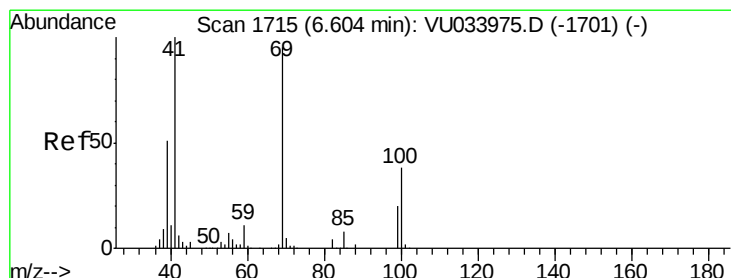
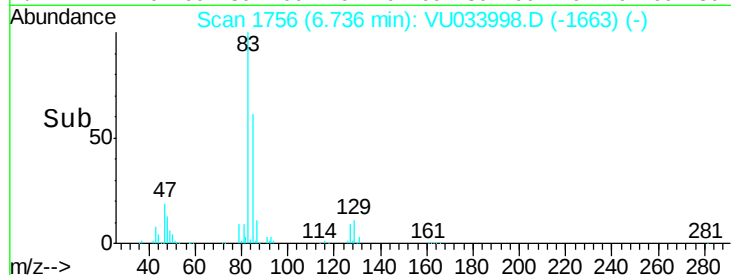
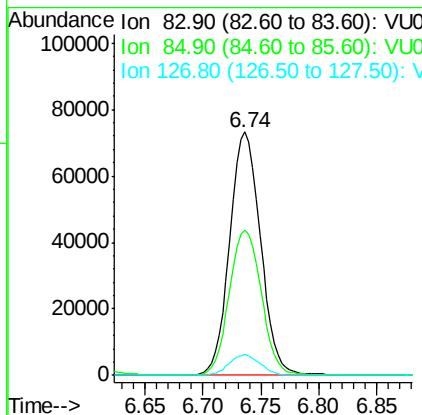
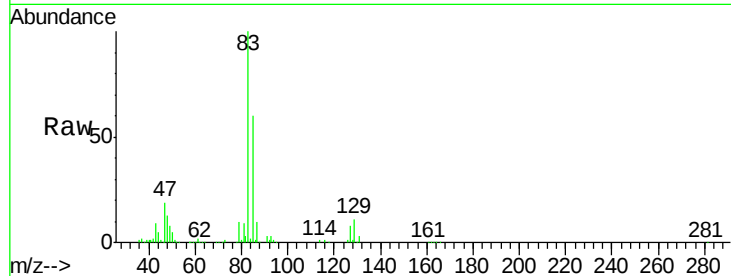
ClientSampleId :

VU0828WBS02

Tot Ion:	83	Resp:	135598
Ion	Ratio	Lower	Upper
83	100		
85	59.7	50.6	76.0
127	8.4	7.4	11.0

Manual Integrations
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8/28/2019 10:00:44 AM



#48

Methyl methacrylate

Concen: 24.213 ug/l

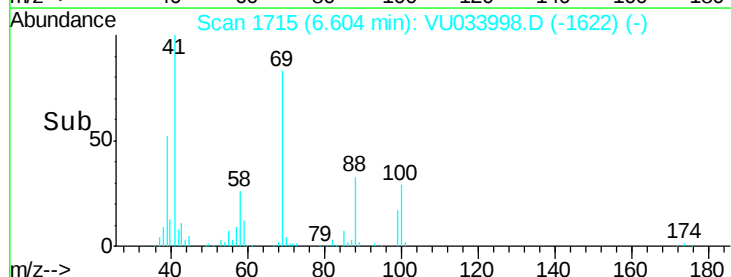
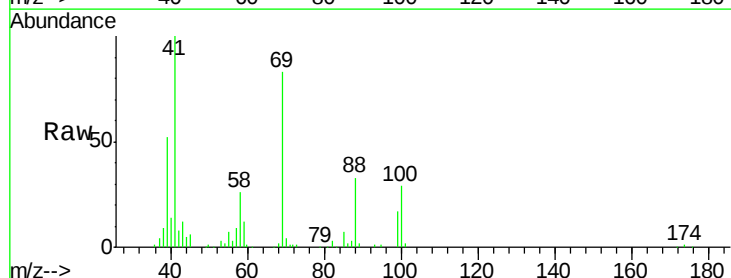
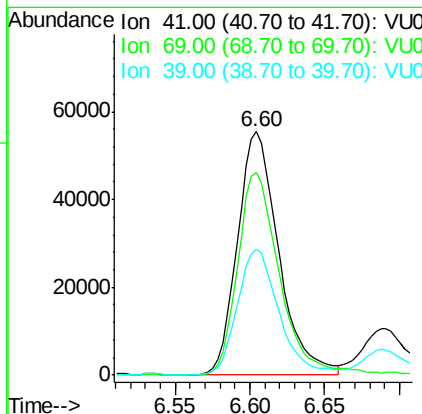
RT: 6.60 min Scan# 1715

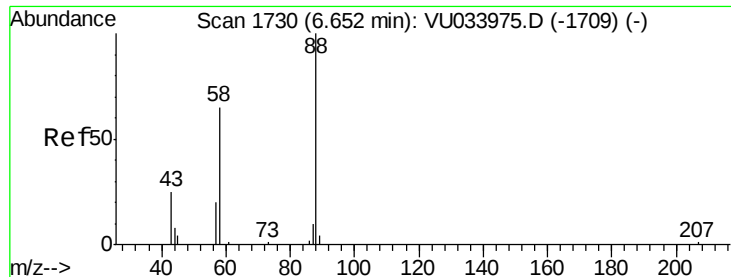
Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion:	41	Resp:	105511
Ion	Ratio	Lower	Upper
41	100		
69	85.3	76.3	114.5
39	52.0	41.1	61.7





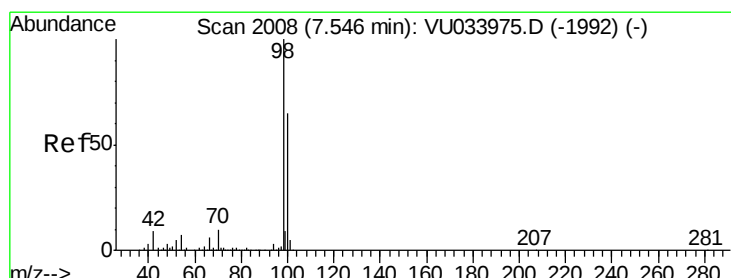
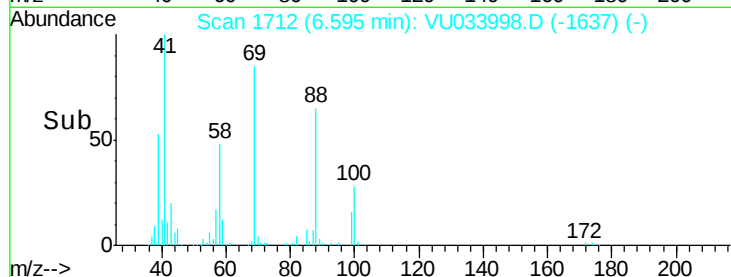
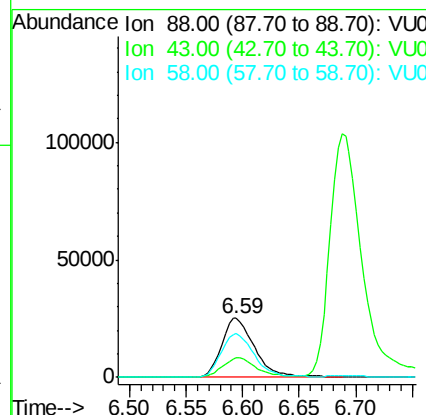
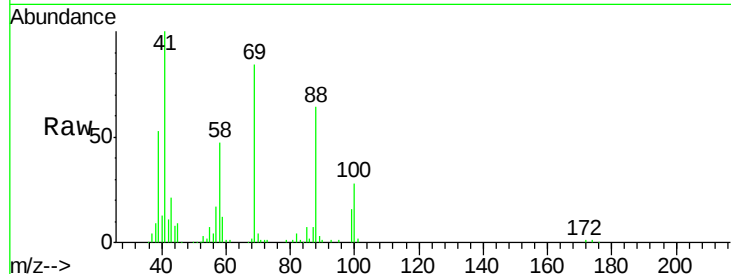
#49
1,4-Dioxane
Concen: 420.022 ug/l
RT: 6.59 min Scan# 1712
Delta R.T. -0.06 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Resp	Lower	Upper
88	100	50231		
43	32.6	0.0	0.0	0.0
58	76.0	56.6	85.0	

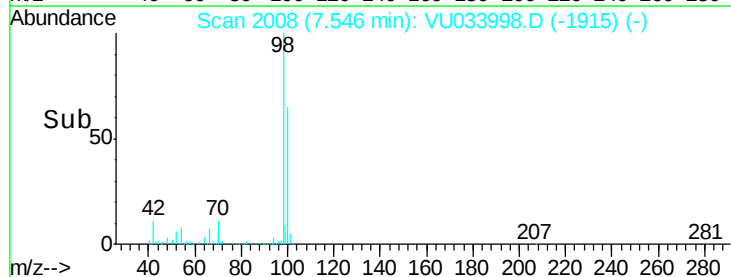
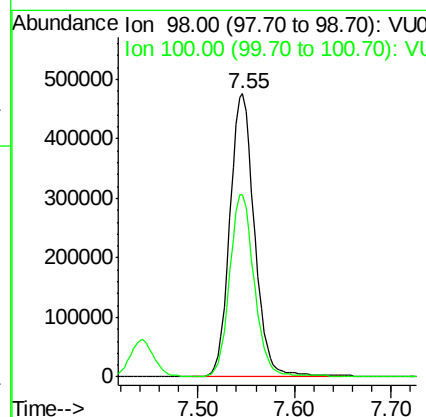
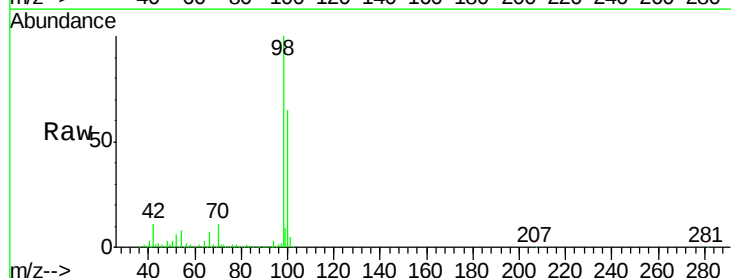
Manual Integrations
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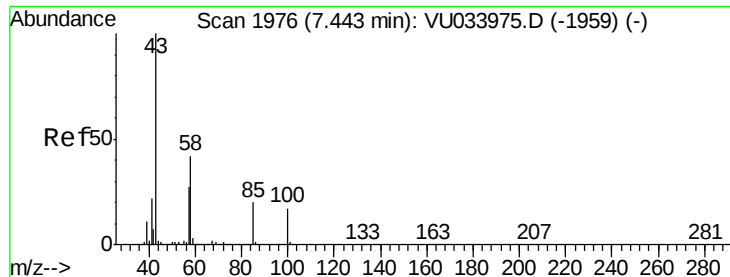
MMDadoda
8/28/2019 10:00:44 AM



#50
Toluene-d8
Concen: 52.319 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	844033		
100	64.0	51.5	77.3	





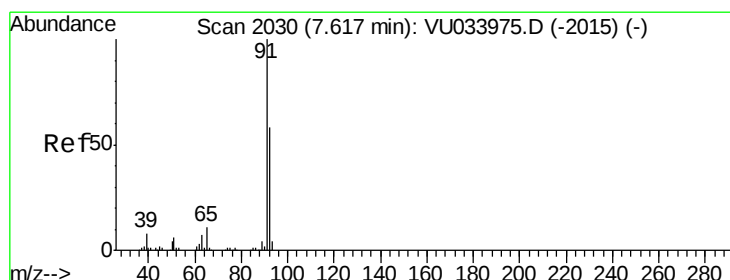
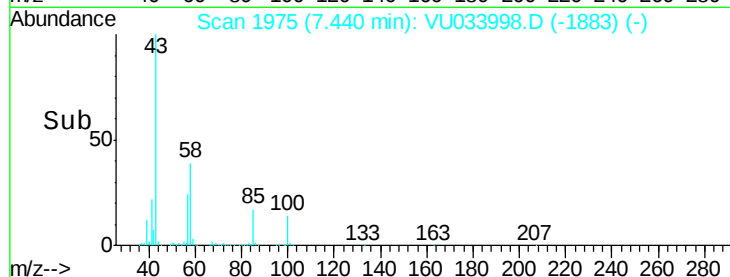
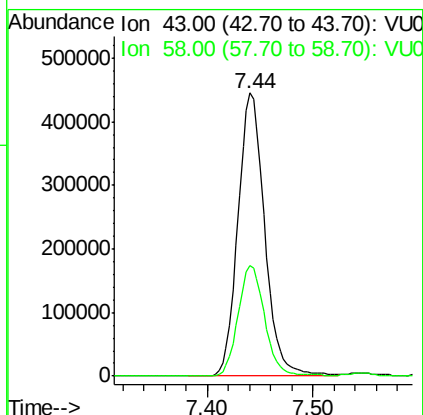
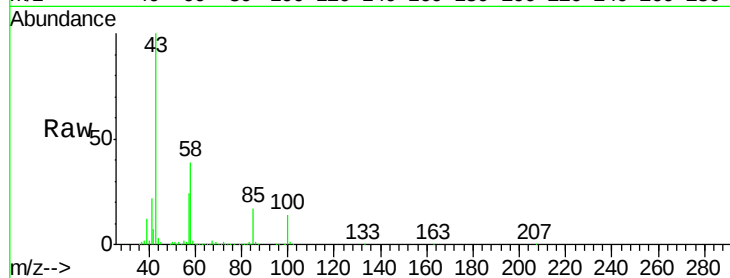
#51
 4-Methyl-2-Pentanone
 Concen: 123.817 ug/l
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0828WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.1	33.6	50.4

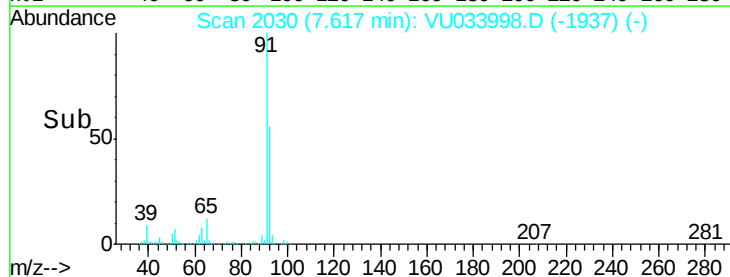
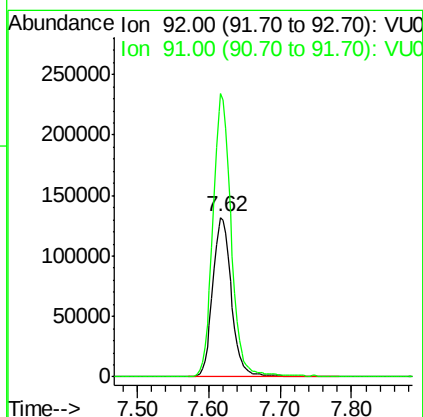
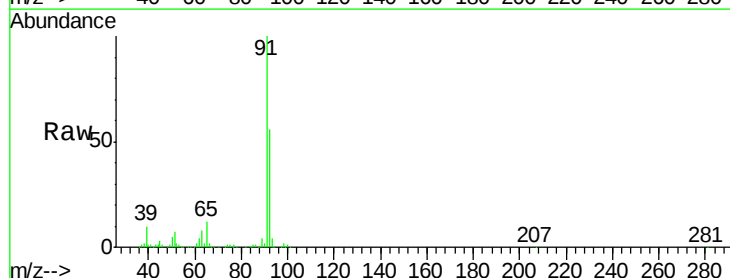
Manual Integrations
 APPROVED

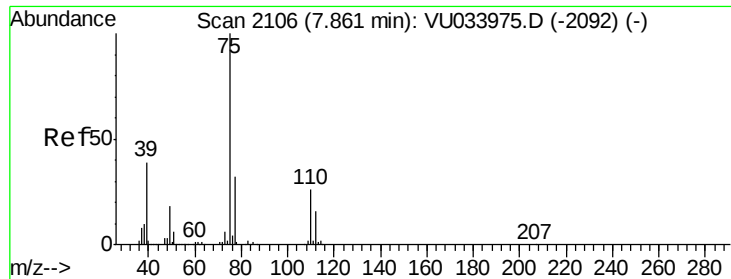
MMDadoda
 8/28/2019 10:00:44 AM



#52
 Toluene
 Concen: 21.630 ug/l
 RT: 7.62 min Scan# 2030
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.4	138.8	208.2





#53

t-1,3-Dichloropropene

Concen: 20.766 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 75 Resp: 141008

Ion Ratio Lower Upper

75 100

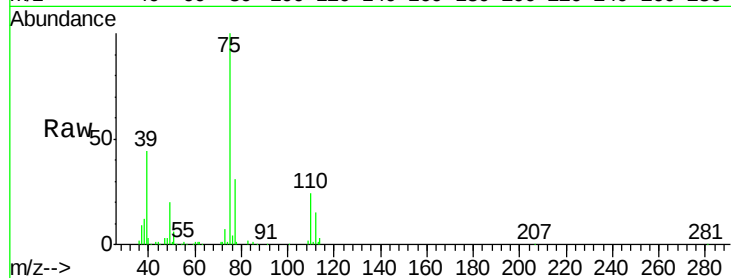
77 31.4 25.4 38.2

Manual Integrations

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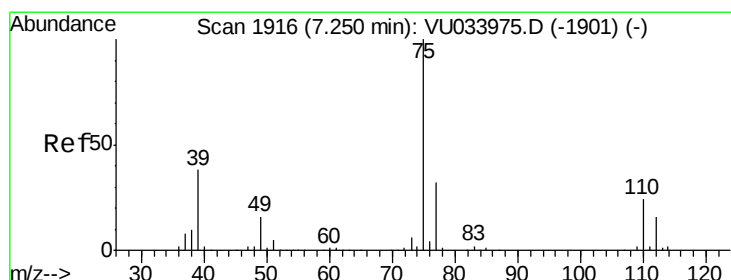
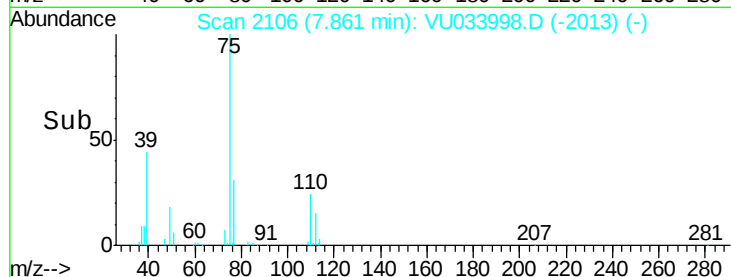
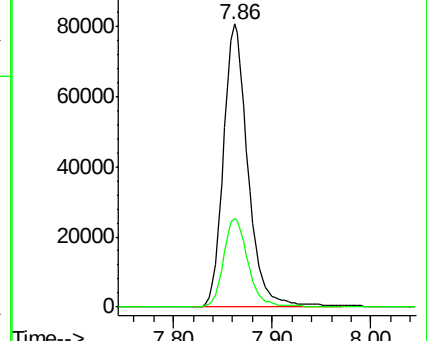
MMDadoda

8/28/2019 10:00:44 AM



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 21.233 ug/l

RT: 7.25 min Scan# 1916

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

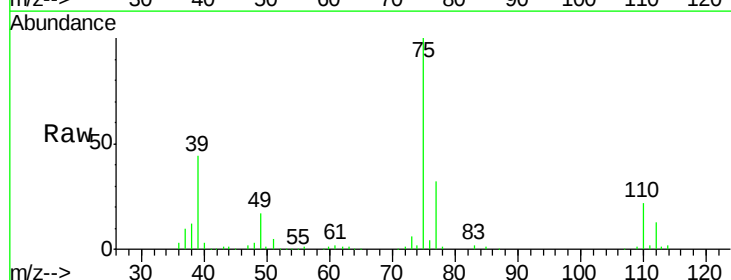
Tgt Ion: 75 Resp: 155855

Ion Ratio Lower Upper

75 100

77 31.5 25.6 38.4

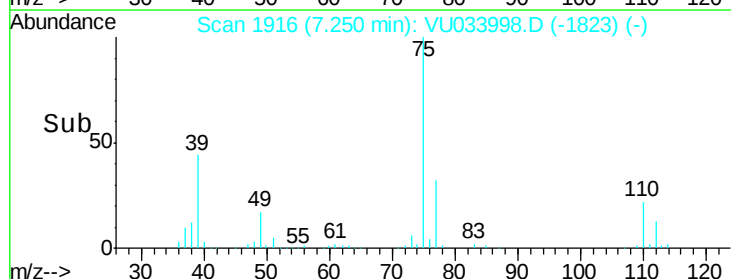
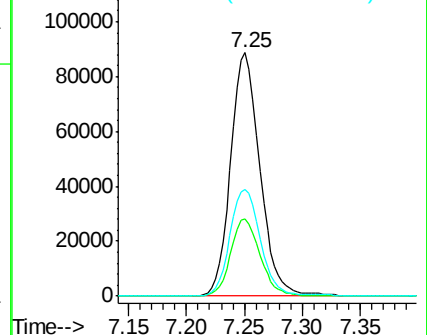
39 43.7 30.7 46.1

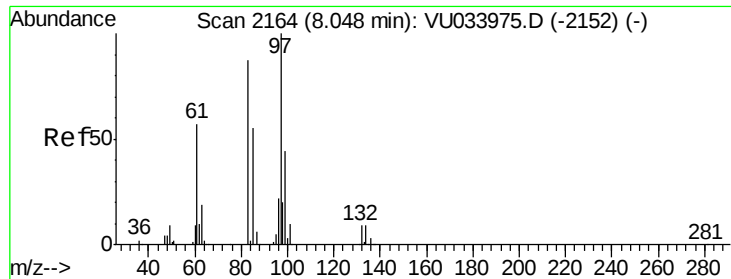


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





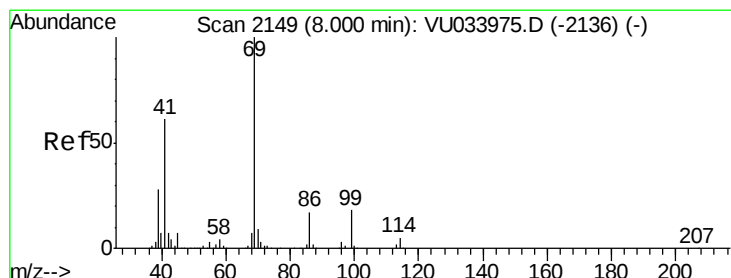
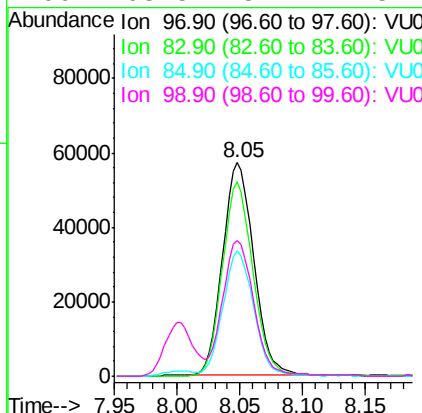
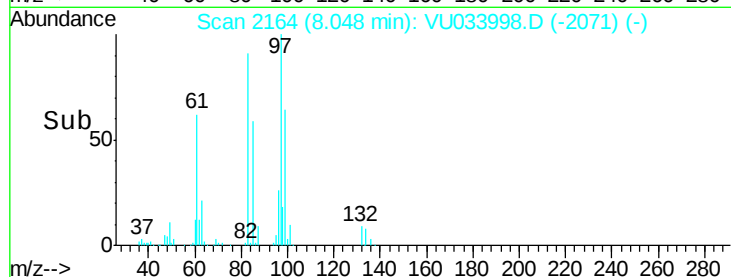
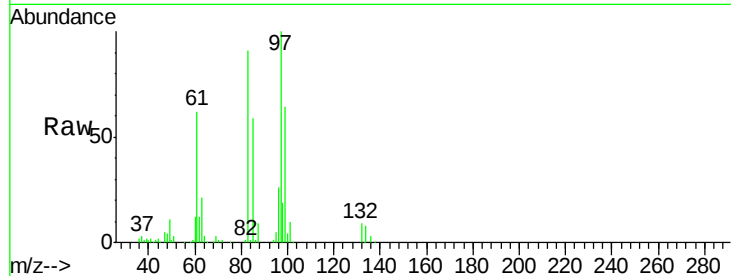
#55
 1,1,2-Trichloroethane
 Concen: 20.977 ug/l
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	97	100			
83	83	91.2	69.8	104.6	
85	85	58.5	45.2	67.8	
99	99	63.5	52.2	78.4	

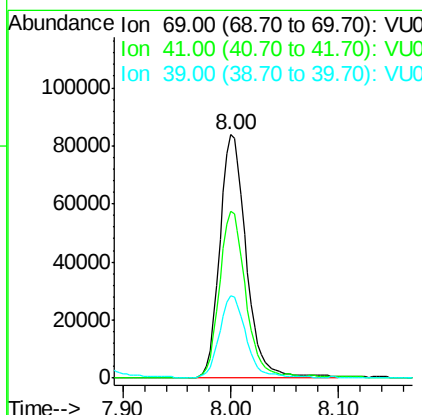
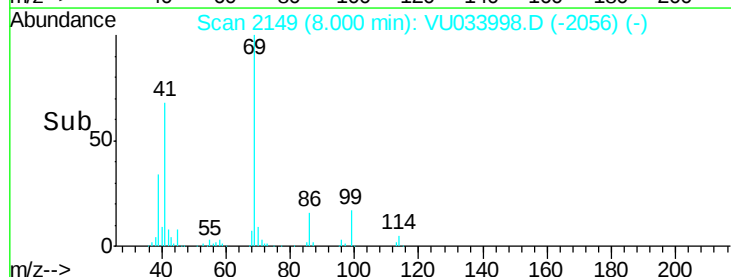
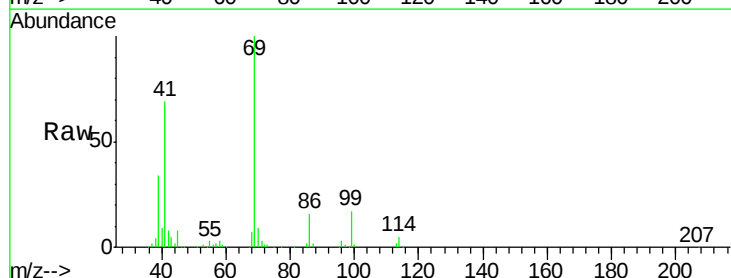
Manual Integrations
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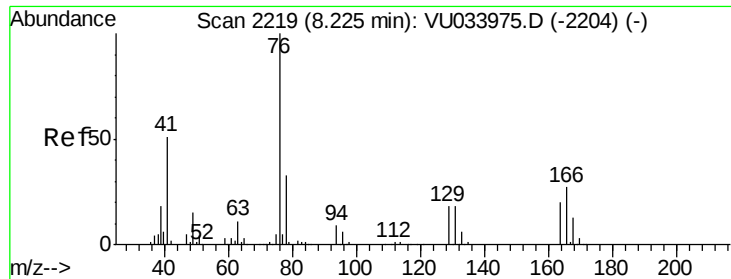
MMDadoda
 8/28/2019 10:00:44 AM



#56
 Ethyl methacrylate
 Concen: 20.832 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	69	100			
41	41	66.6	48.6	72.8	
39	39	33.1	22.4	33.6	





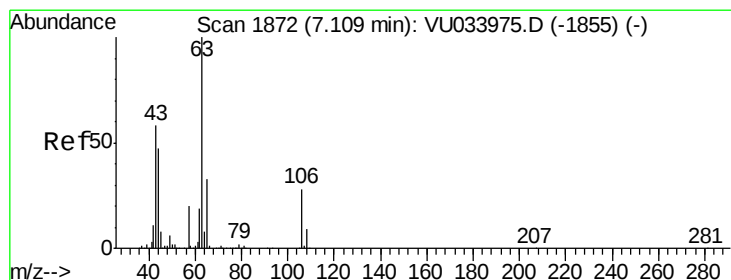
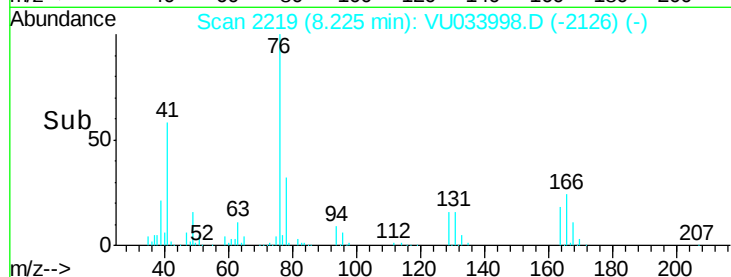
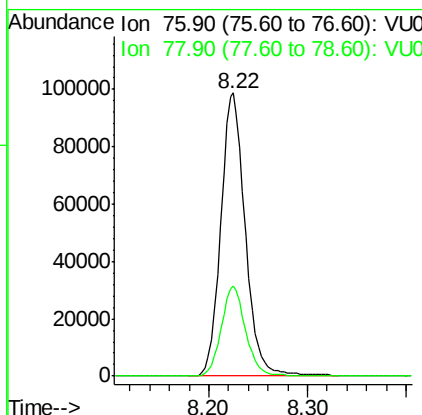
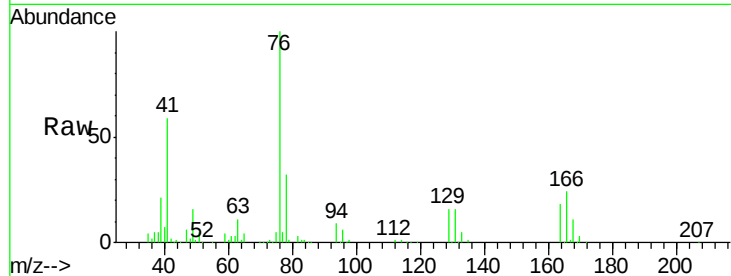
#57
 1,3-Dichloropropane
 Concen: 22.355 ug/l
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion: 76 Resp: 171995
 Ion Ratio Lower Upper
 76 100
 78 31.5 25.7 38.5

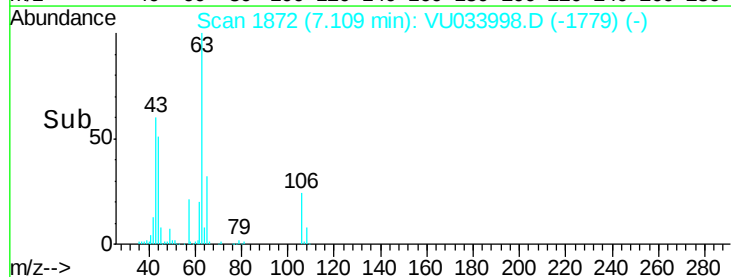
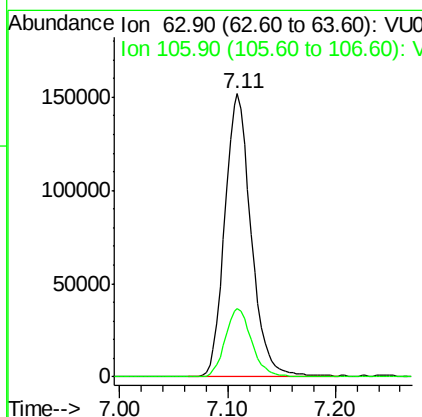
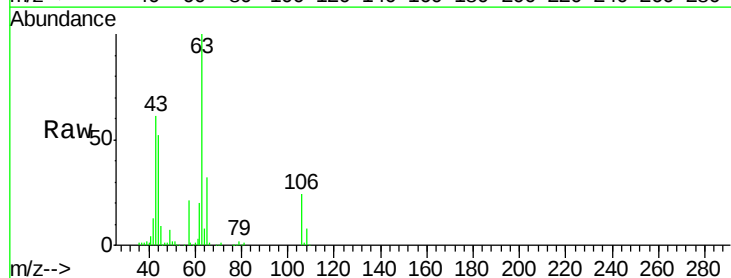
Manual Integrations
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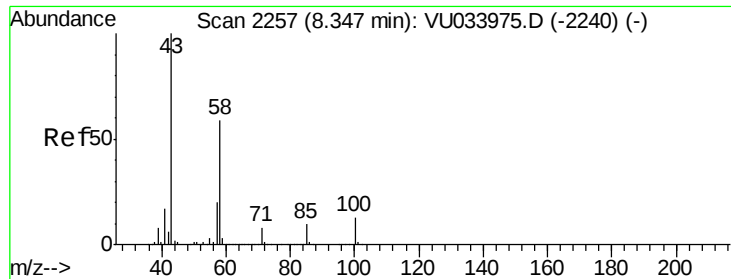
MMDadoda
 8/28/2019 10:00:44 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 103.775 ug/l
 RT: 7.11 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion: 63 Resp: 259171
 Ion Ratio Lower Upper
 63 100
 106 24.4 22.4 33.6





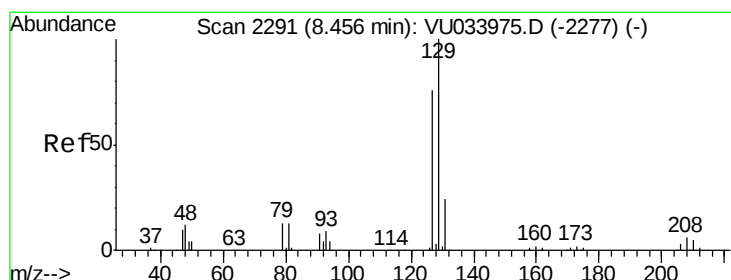
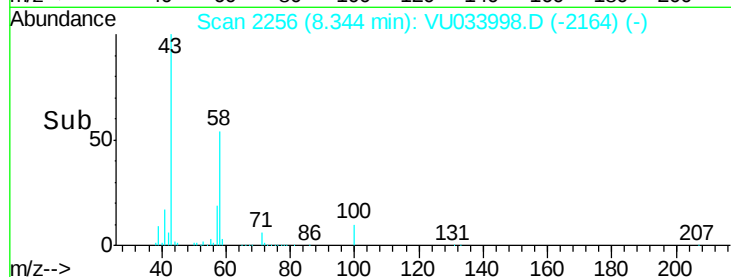
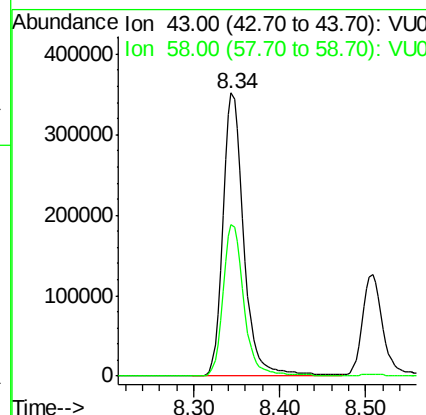
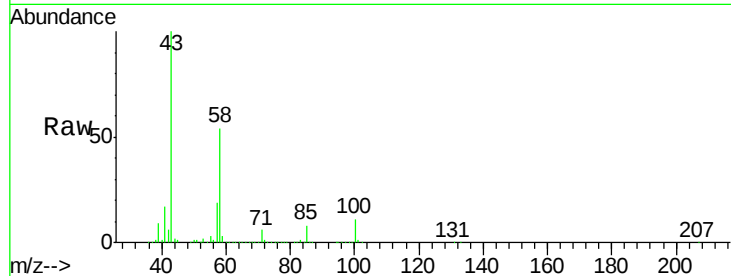
#59
2-Hexanone
Concen: 122.339 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.8	29.5	88.6

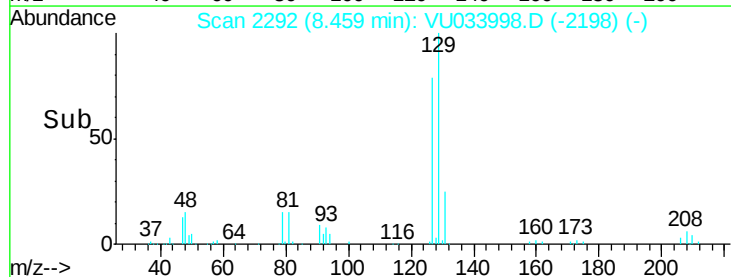
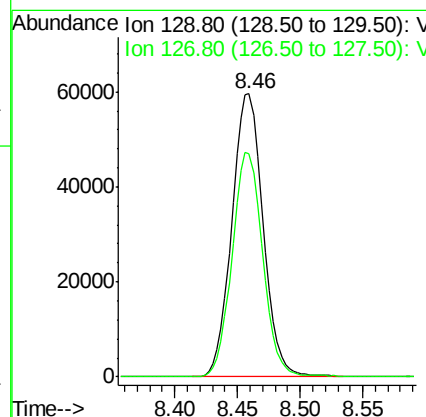
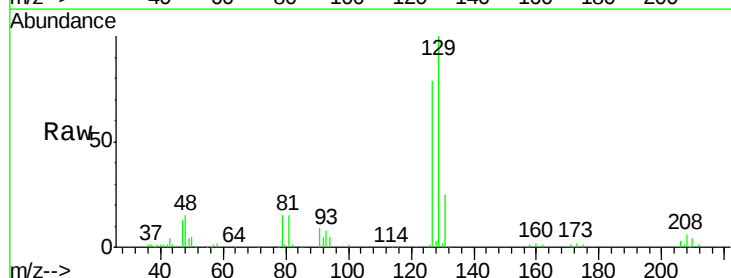
Manual Integrations
APPROVED

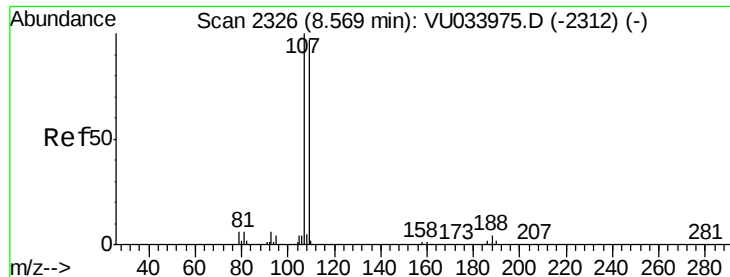
MMDadoda
8/28/2019 10:00:44 AM



#60
Dibromochloromethane
Concen: 19.463 ug/l
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.8	116.4





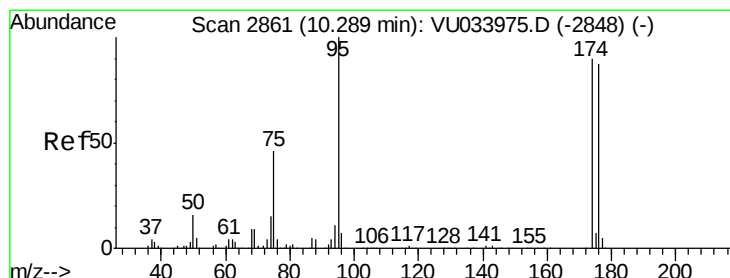
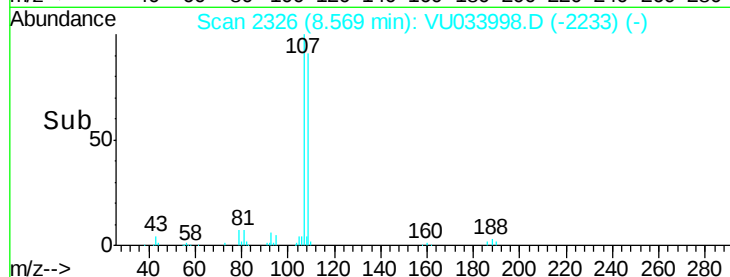
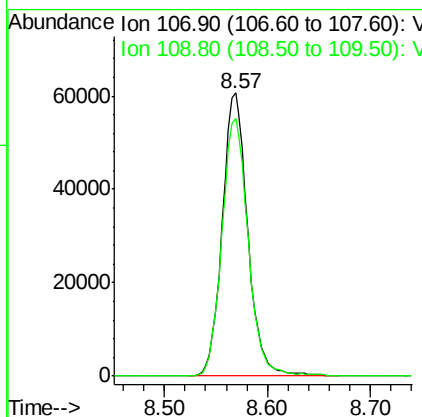
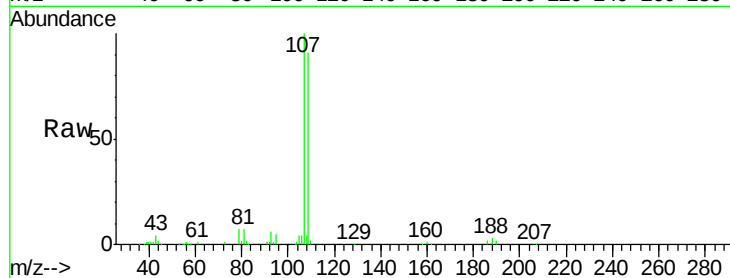
#61
 1,2-Dibromoethane
 Concen: 20.945 ug/l
 RT: 8.57 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.7	113.5

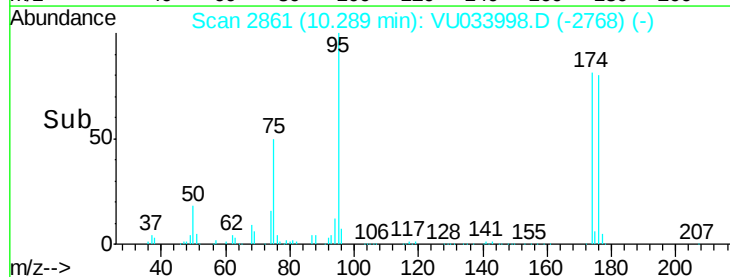
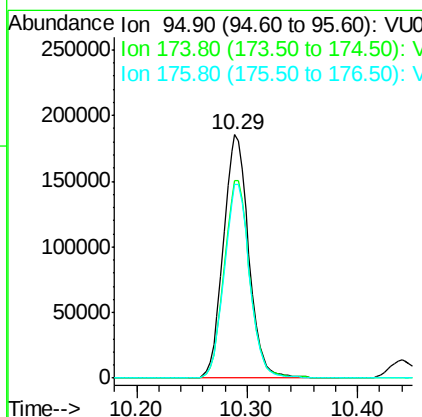
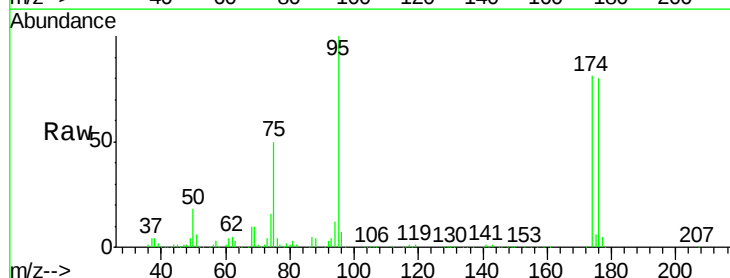
Manual Integrations
 APPROVED

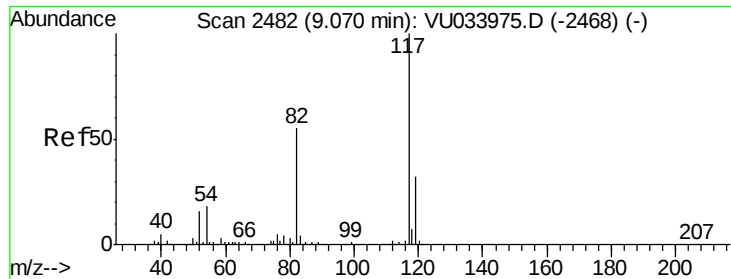
MMDadoda
 8/28/2019 10:00:44 AM



#62
 4-Bromofluorobenzene
 Concen: 47.804 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
95	100		
174	81.8	0.0	183.8
176	80.0	0.0	176.4





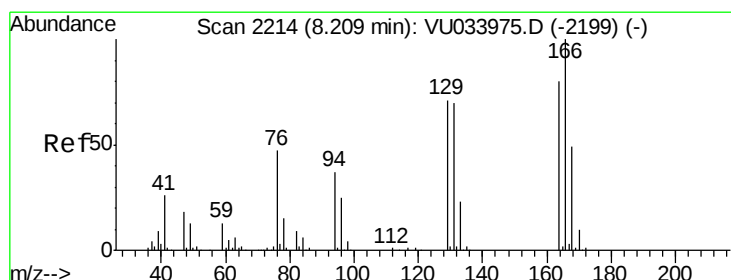
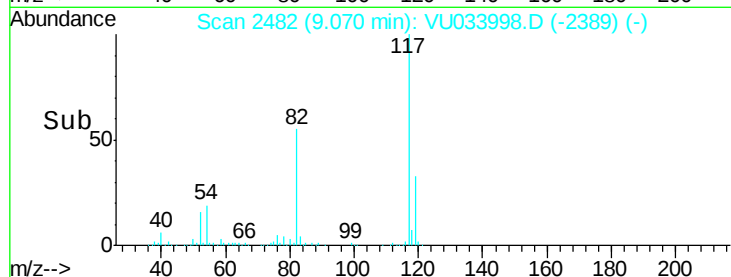
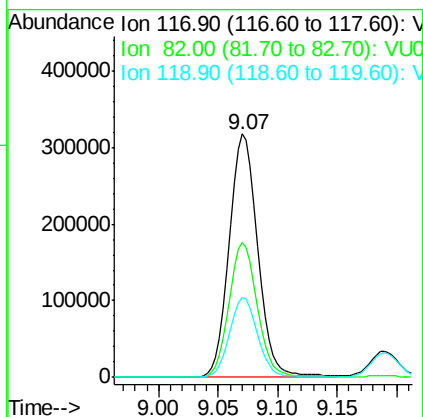
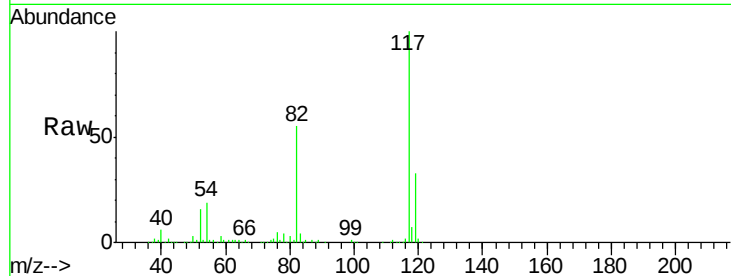
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	530259		
82	55.4		43.8	65.8
119	32.7		25.7	38.5

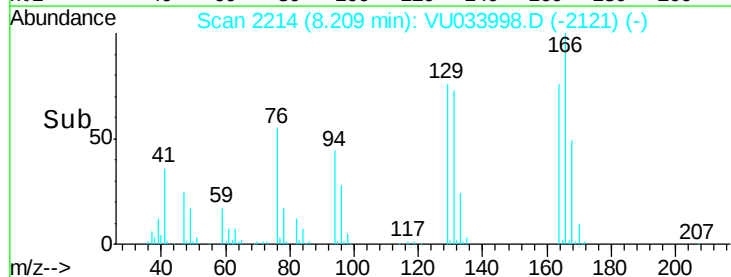
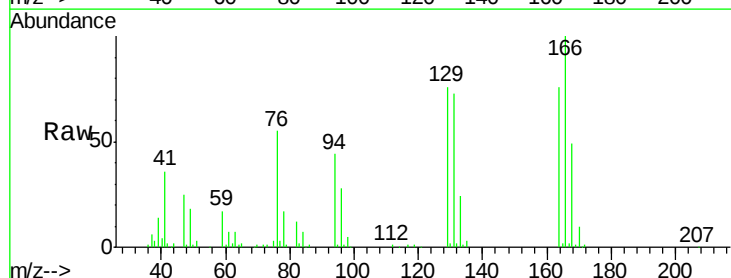
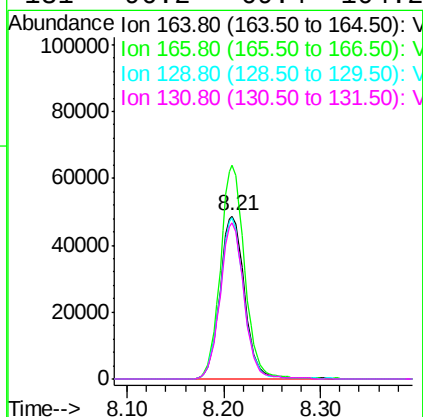
Manual Integrations
APPROVED

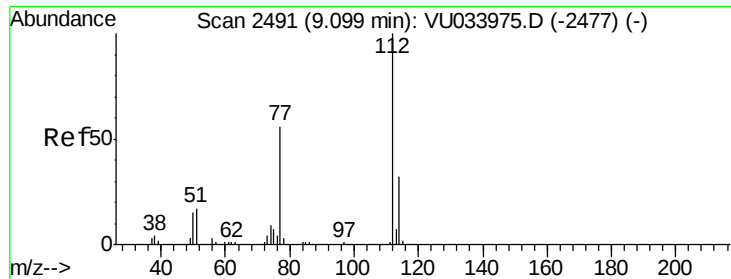
MMDadoda
8/28/2019 10:00:44 AM



#64
Tetrachloroethene
Concen: 20.251 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	86340		
166	131.1		99.5	149.3
129	99.1		70.9	106.3
131	96.2		69.4	104.2





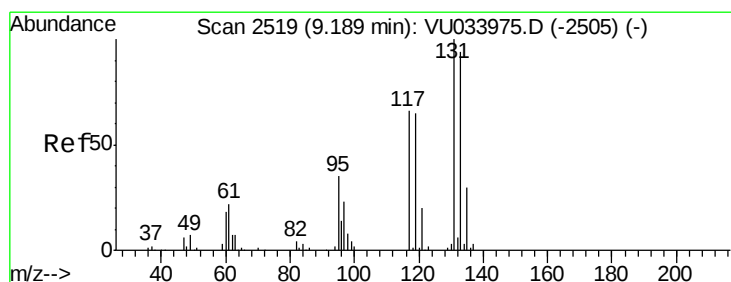
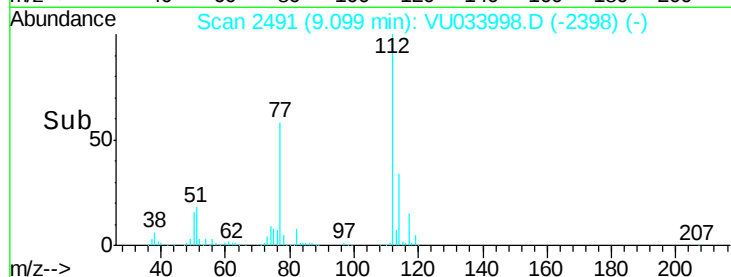
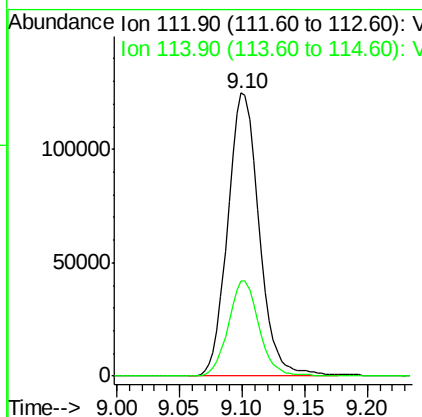
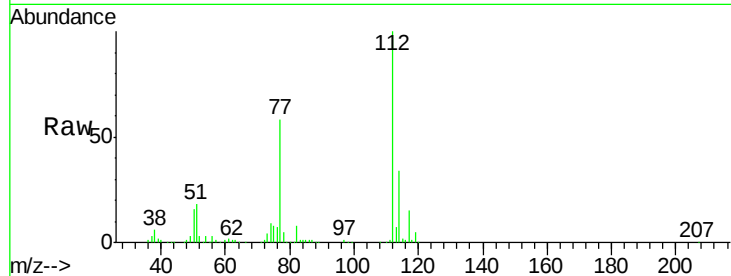
#65
Chlorobenzene
Concen: 19.949 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Resp	Lower	Upper
112	100	217822		
114	33.6	25.8	38.8	

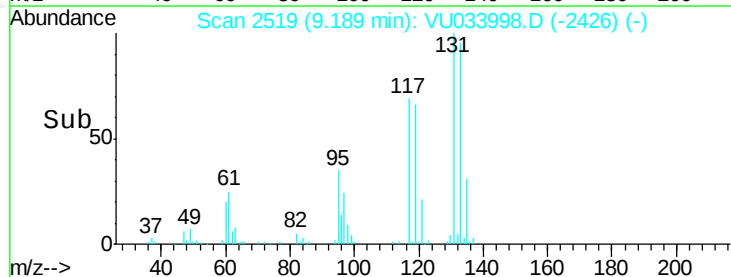
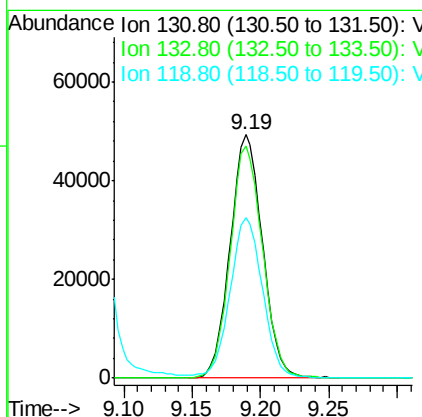
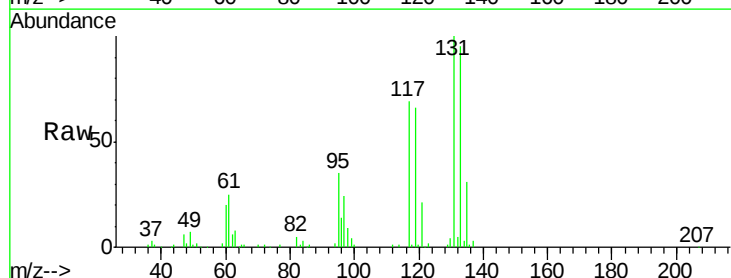
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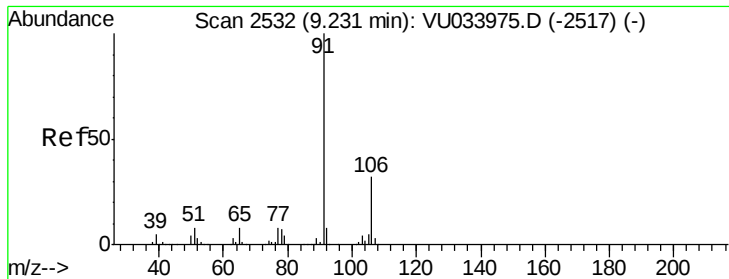
MMDadoda
8/28/2019 10:00:44 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.913 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	81065		
133	96.1	47.6	142.9	
119	66.0	33.0	98.9	





#67

Ethyl Benzene

Concen: 20.376 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 91 Resp: 370958

Ion Ratio Lower Upper

91 100

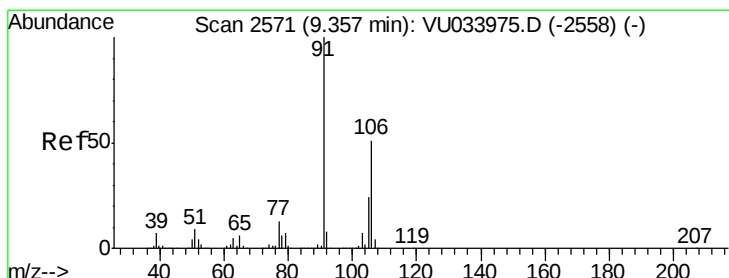
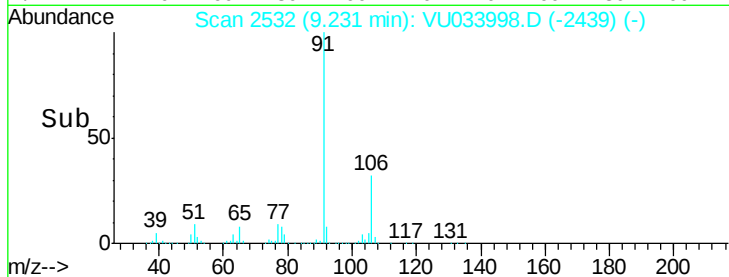
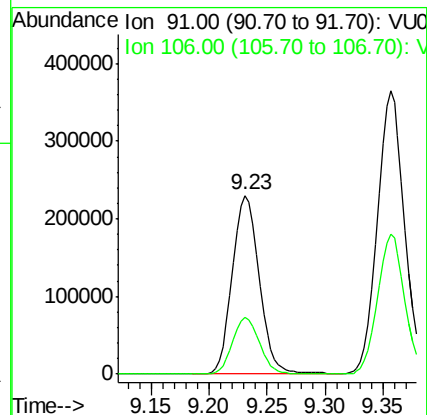
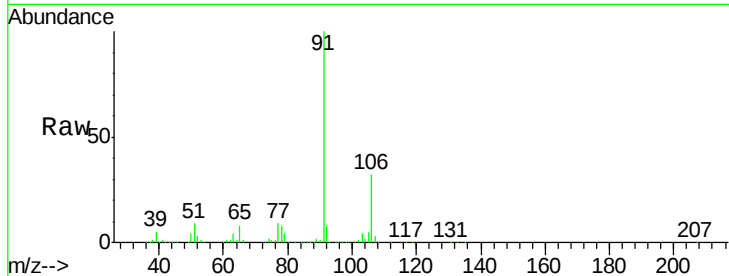
106 31.6 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

8/28/2019 10:00:44 AM



#68

m/p-Xylenes

Concen: 42.215 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033998.D

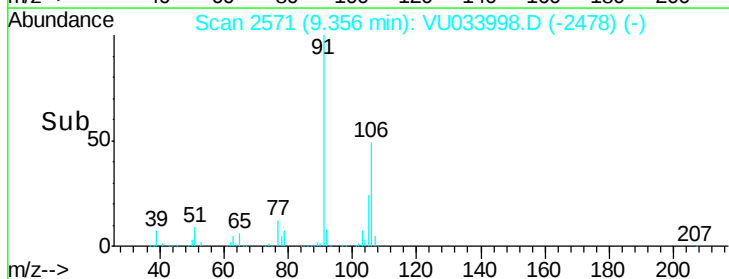
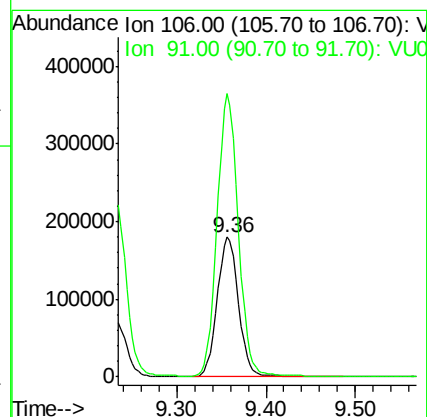
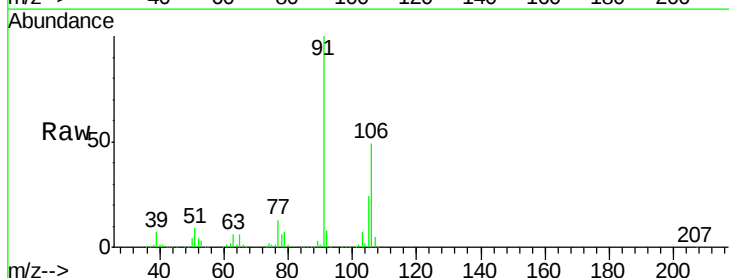
Acq: 28 Aug 2019 02:39

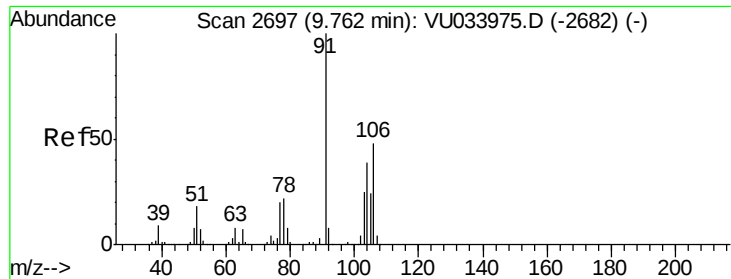
Tgt Ion: 106 Resp: 296399

Ion Ratio Lower Upper

106 100

91 202.1 158.4 237.6





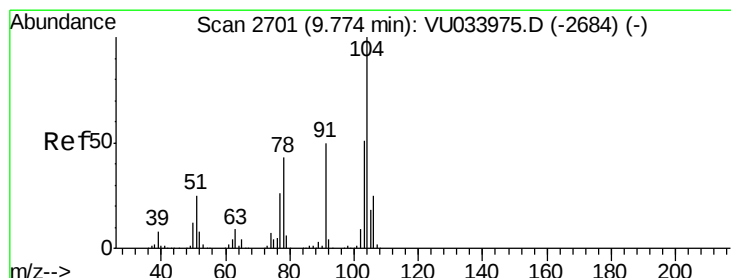
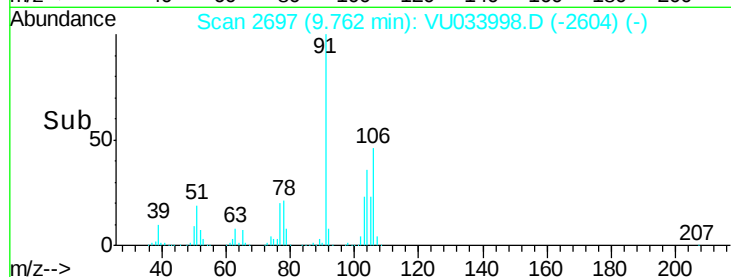
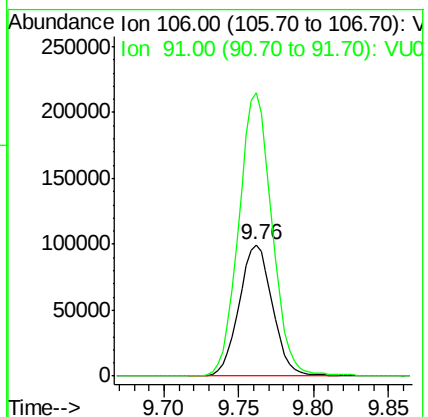
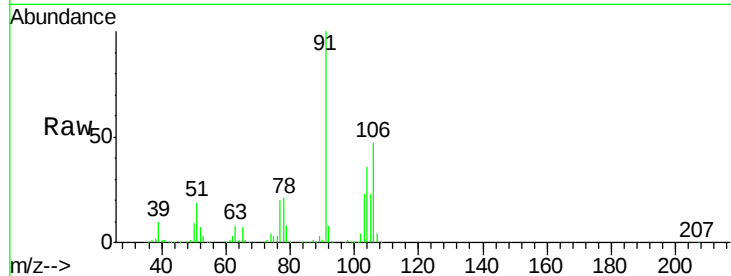
#69
o-Xylene
Concen: 23.135 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
106	100		
91	214.8	104.5	313.3

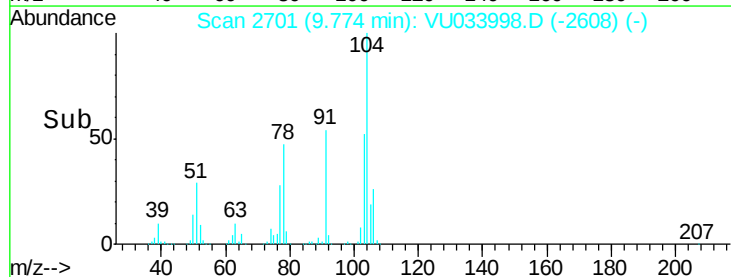
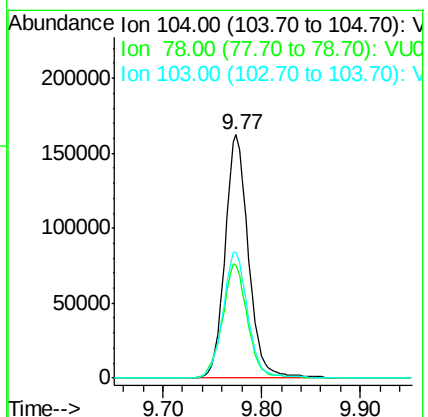
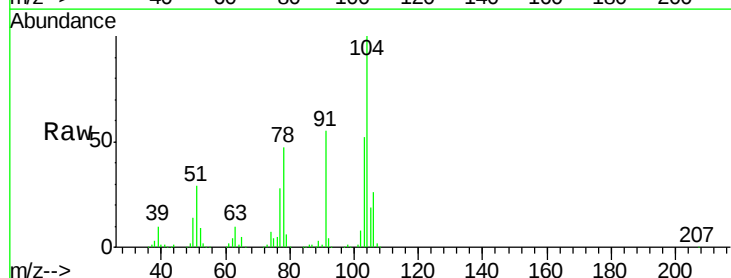
Manual Integrations
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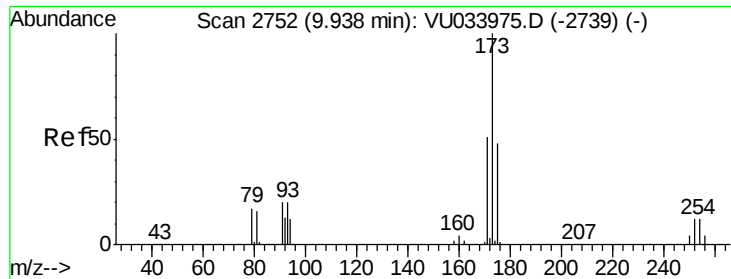
MMDadoda
8/28/2019 10:00:44 AM



#70
Styrene
Concen: 23.626 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.2	37.5	56.3
103	55.2	43.9	65.9





#71

Bromoform

Concen: 20.613 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion:173 Resp: 74282

Ion Ratio Lower Upper

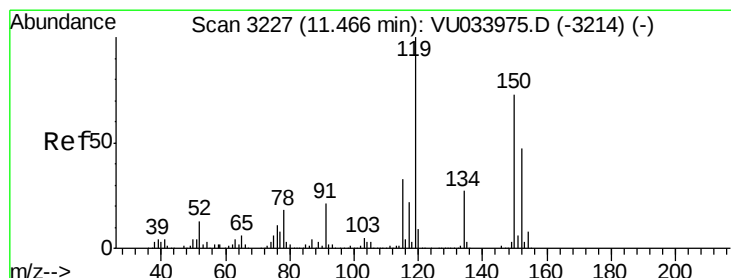
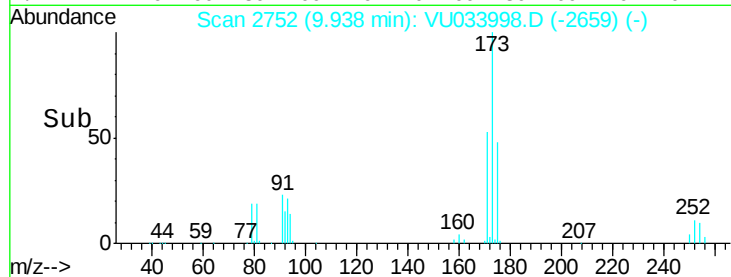
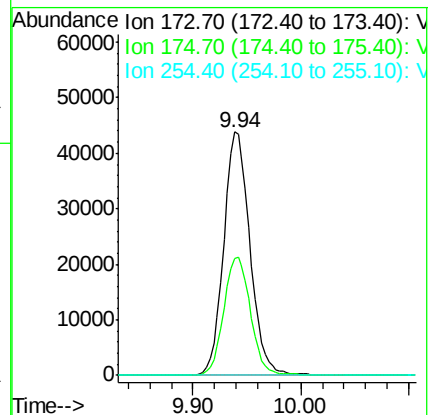
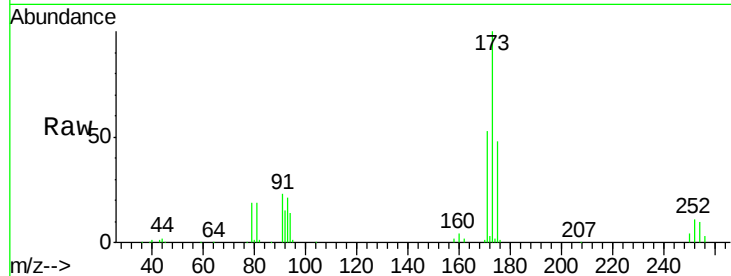
173 100

175 49.2 24.3 72.9

254 0.1 0.1 0.1#

Manual Integrations
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8/28/2019 10:00:44 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

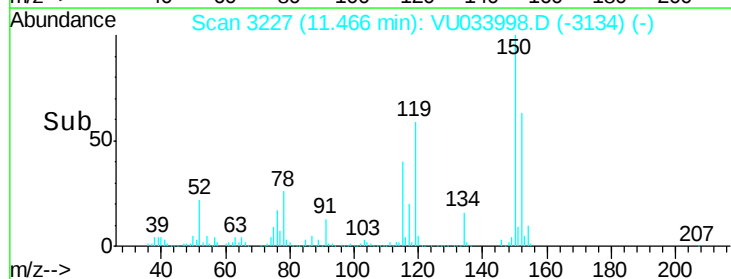
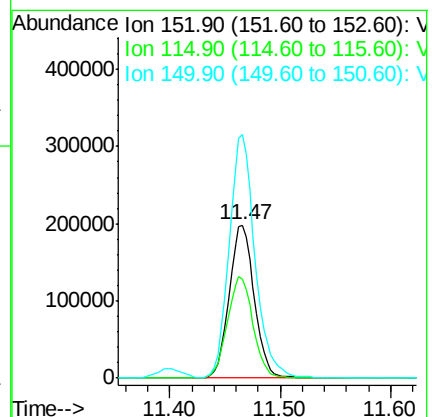
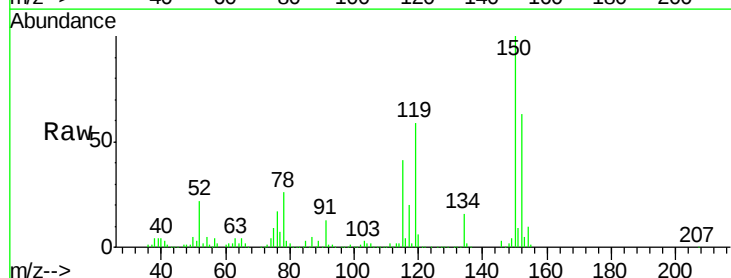
Tgt Ion:152 Resp: 312703

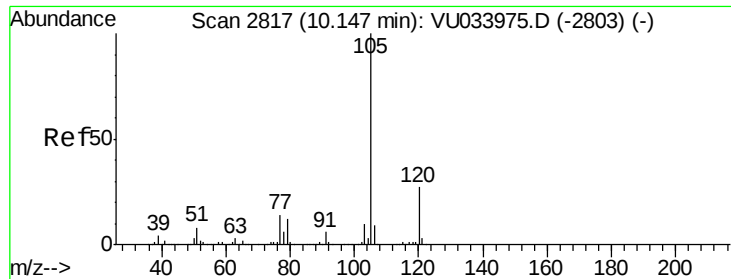
Ion Ratio Lower Upper

152 100

115 67.7 38.6 115.7

150 163.5 0.0 343.8





#73

Isopropylbenzene

Concen: 19.807 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 105 Resp: 398620

Ion Ratio Lower Upper

105 100

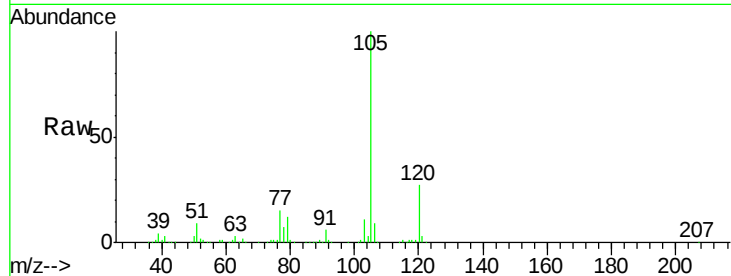
120 26.4 13.5 40.5

Manual Integrations

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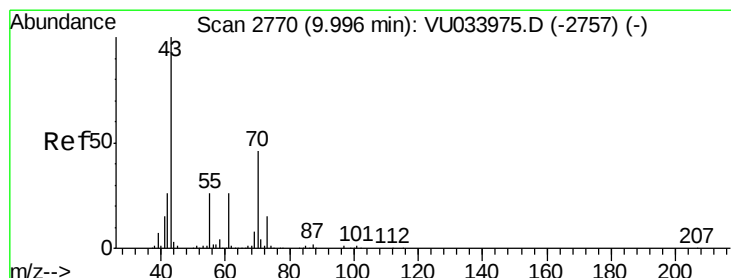
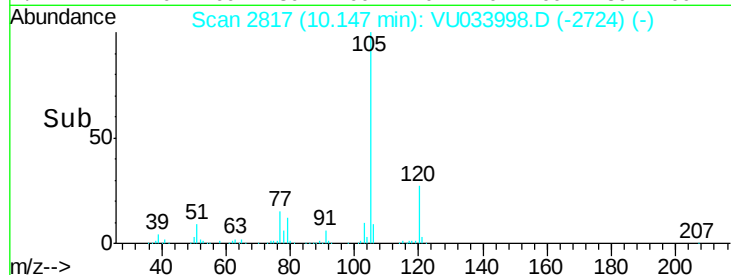
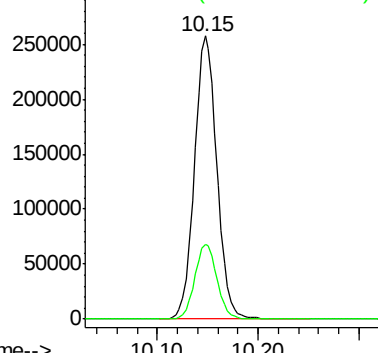
MMDadoda

8/28/2019 10:00:44 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 25.238 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion: 43 Resp: 190663

Ion Ratio Lower Upper

43 100

70 42.3 37.4 56.0

55 25.9 21.0 31.4

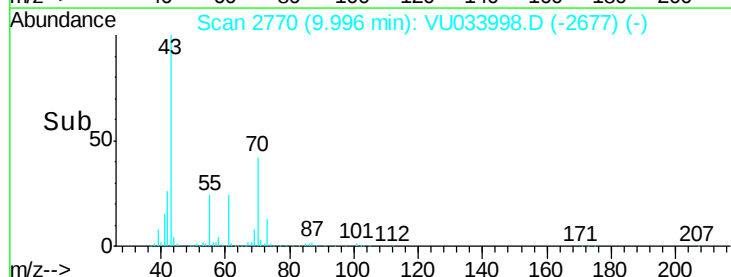
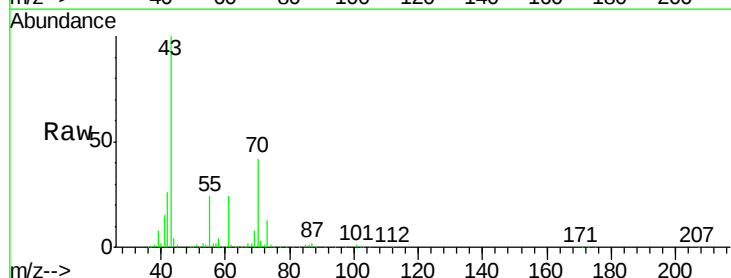
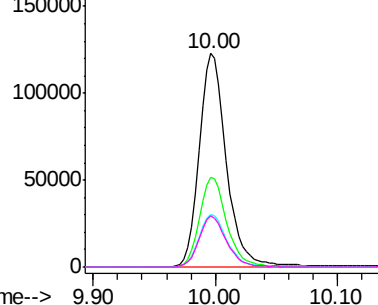
61 24.2 20.9 31.3

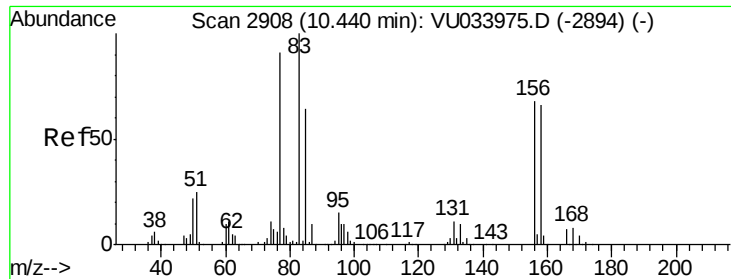
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.784 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

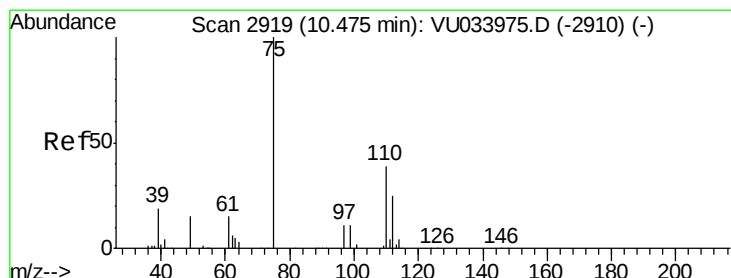
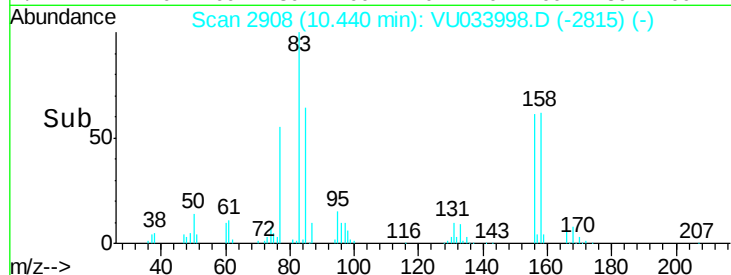
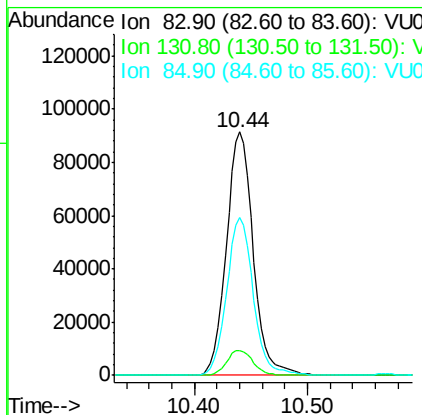
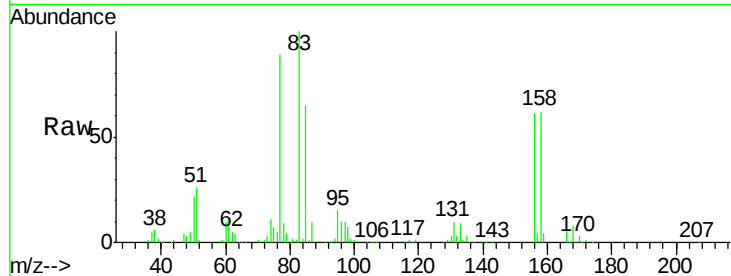
ClientSampleId :

VU0828WBS02

Tot Ion:	83	Resp:	150657
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.3	16.1
85	64.5	32.0	96.0

Manual Integrations
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MMDadoda
8/28/2019 10:00:44 AM



#76

1,2,3-Trichloropropane

Concen: 21.774 ug/l m

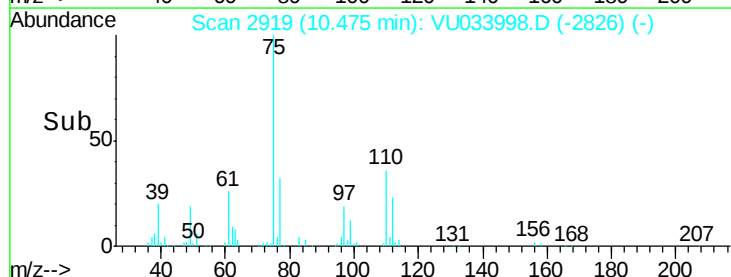
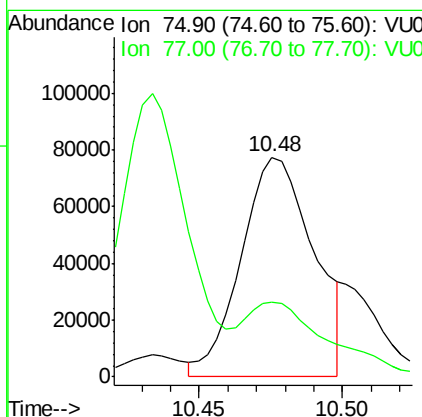
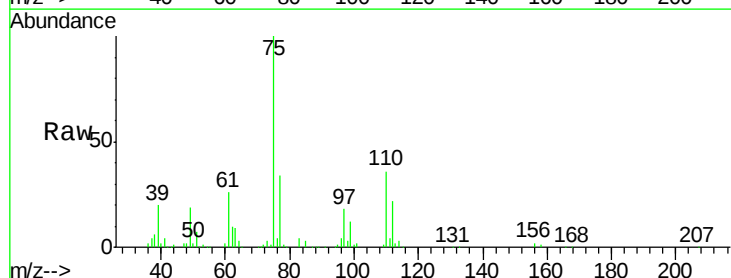
RT: 10.48 min Scan# 2919

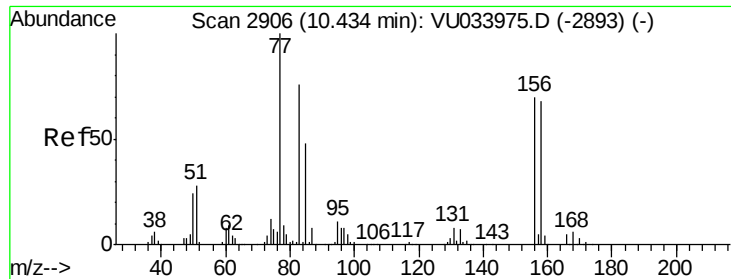
Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion:	75	Resp:	135667
Ion Ratio	Lower	Upper	
75	100		
77	38.8	21.0	63.0





#77

Bromobenzene

Concen: 18.905 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

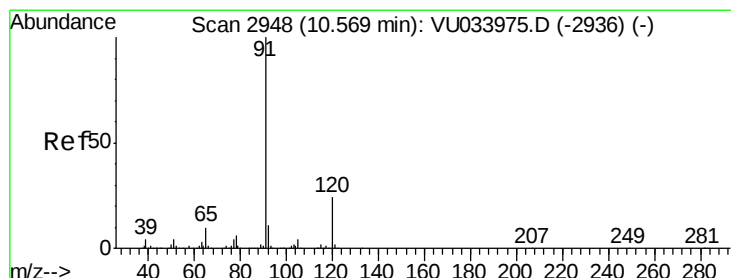
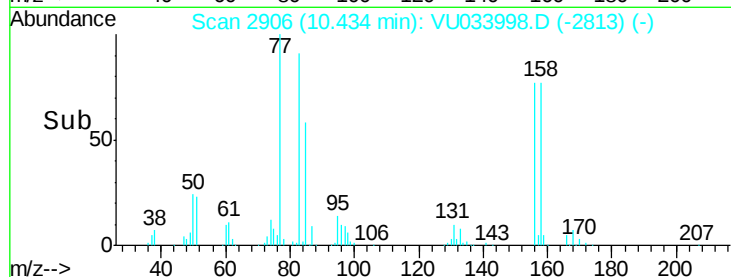
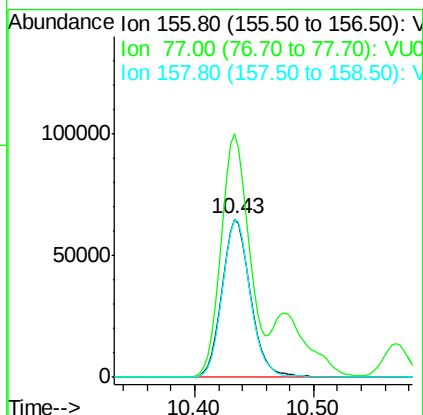
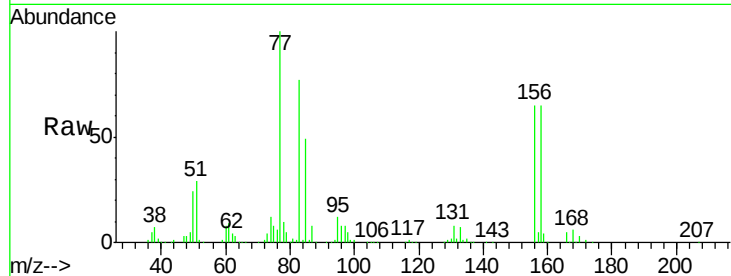
ClientSampleId :

VU0828WBS02

Tot Ion	Ratio	Lower	Upper
156	100		
77	151.5	70.3	211.1
158	98.1	48.3	144.8

Manual Integrations
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#78

n-propylbenzene

Concen: 22.301 ug/l

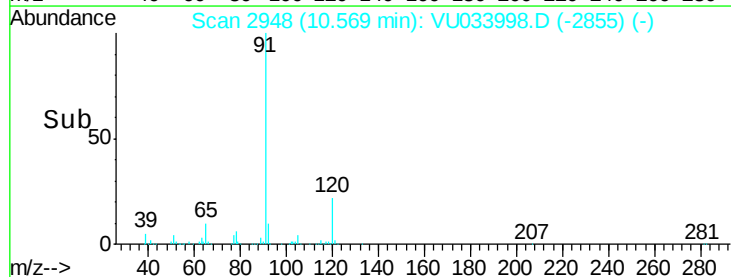
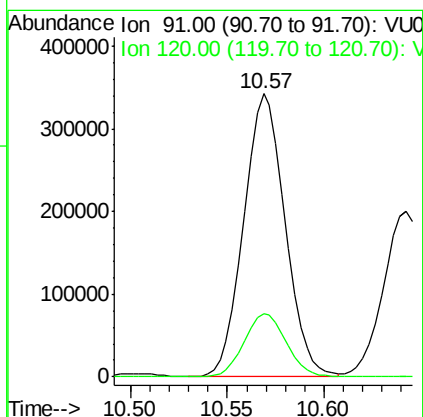
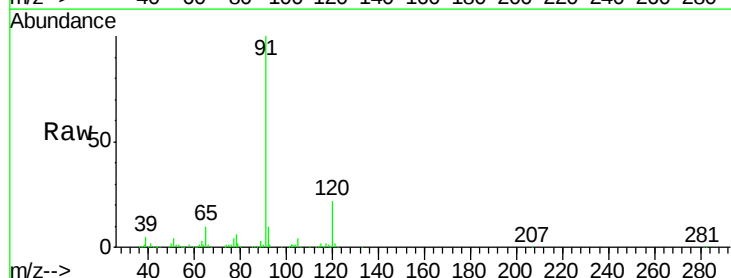
RT: 10.57 min Scan# 2948

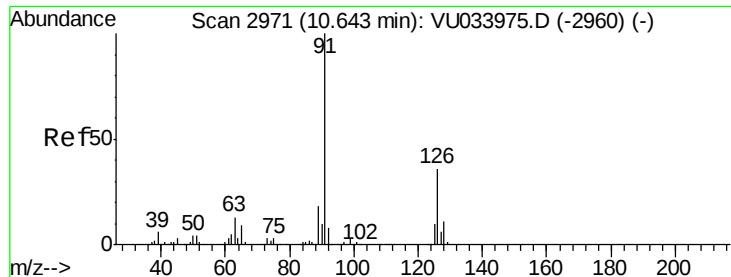
Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.8	12.0	36.0





#79

2-Chlorotoluene

Concen: 22.900 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

ClientSampleId :

VU0828WBS02

Tot Ion: 91 Resp: 315379

Ion Ratio Lower Upper

91 100

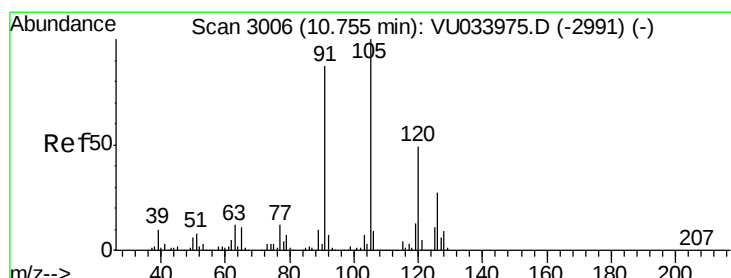
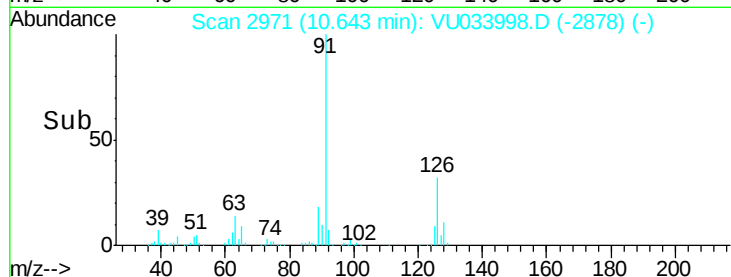
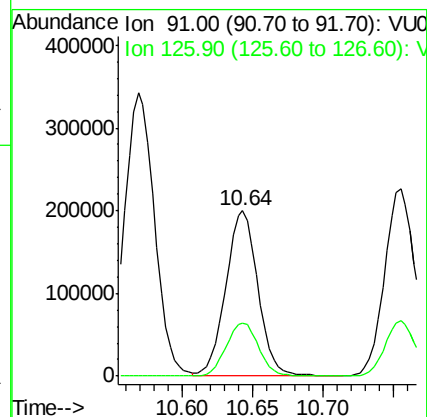
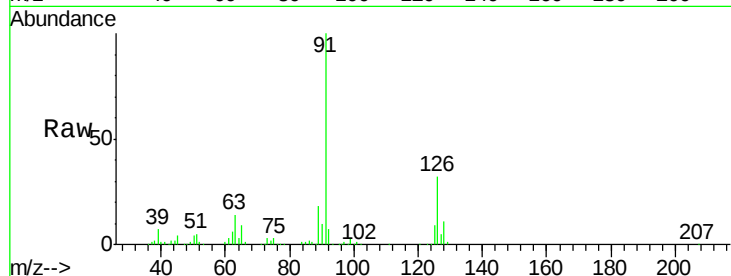
126 32.7 17.8 53.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 22.057 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033998.D

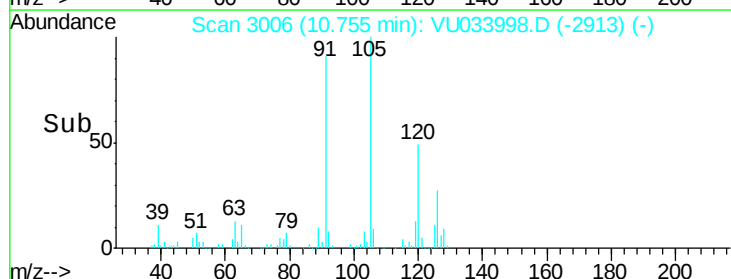
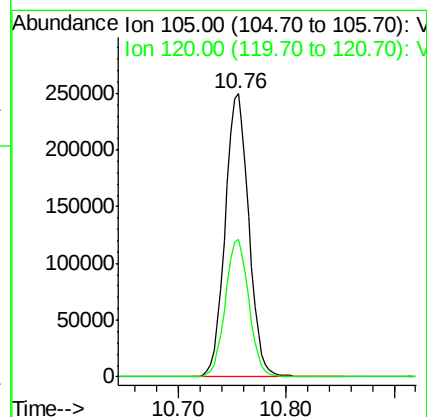
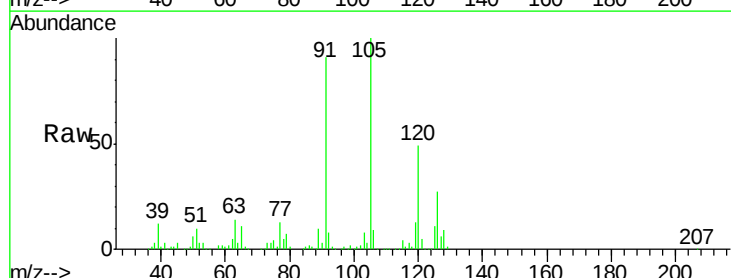
Acq: 28 Aug 2019 02:39

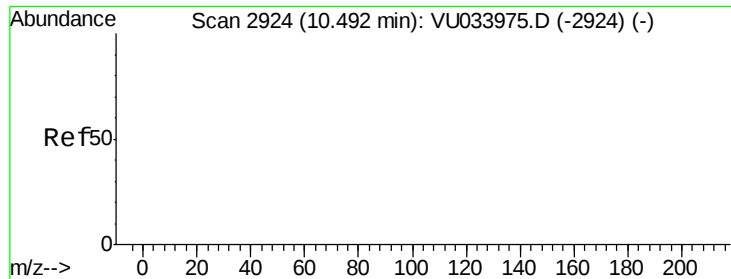
Tgt Ion: 105 Resp: 380187

Ion Ratio Lower Upper

105 100

120 48.6 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 17.526 ug/l m

RT: 10.49 min Scan# 2925

Delta R.T. 0.00 min

Lab File: VU033998.D

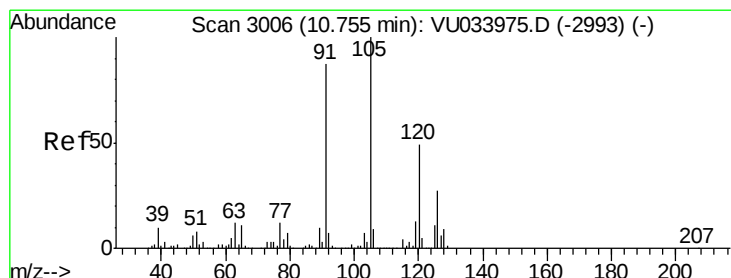
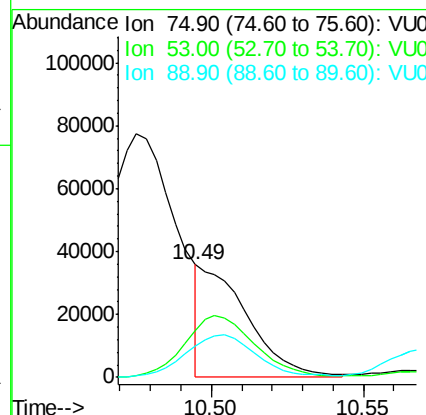
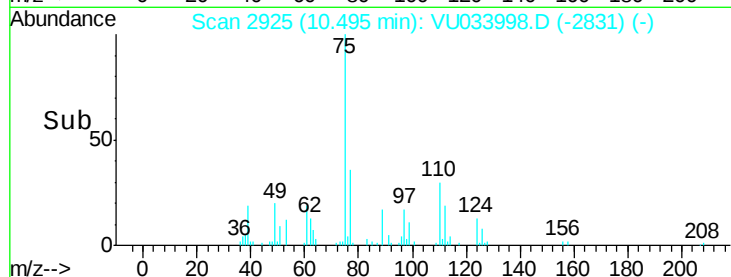
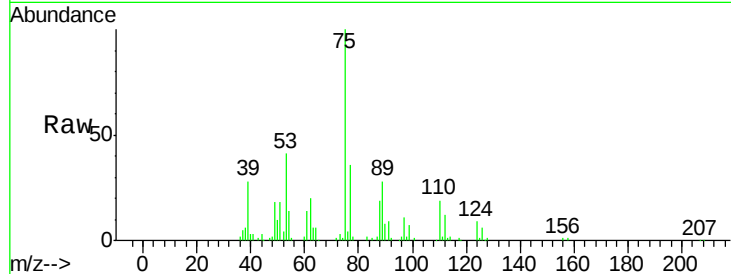
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

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

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#82

4-Chlorotoluene

Concen: 22.010 ug/l

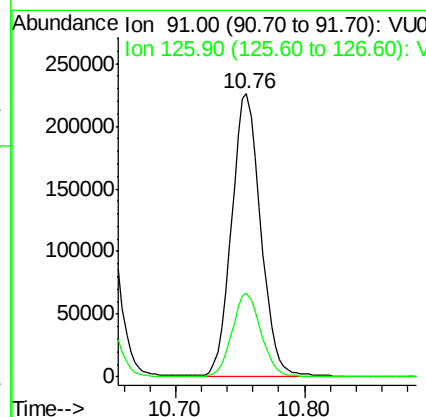
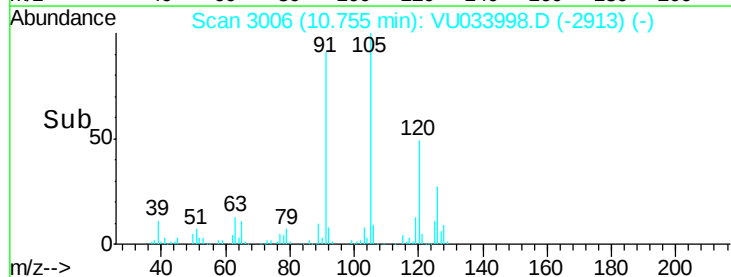
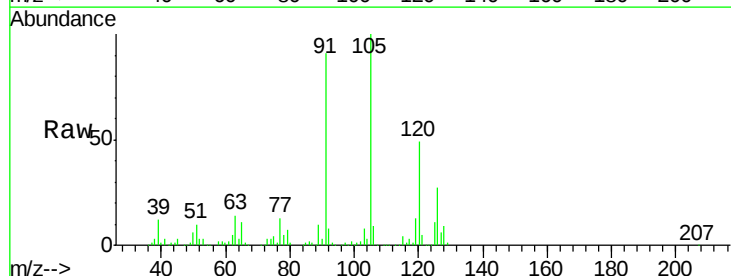
RT: 10.76 min Scan# 3006

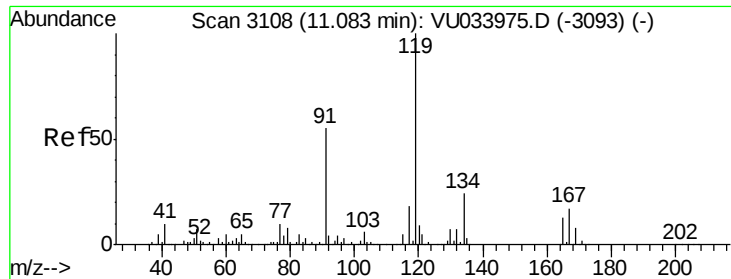
Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.6	15.4	46.4





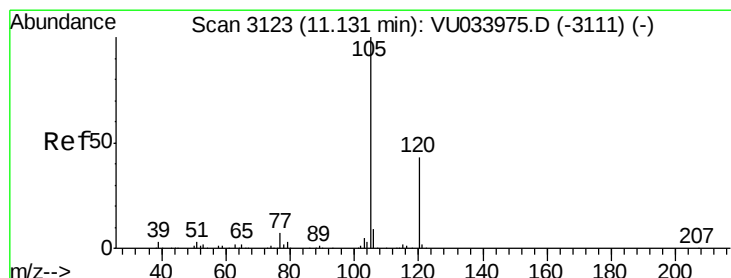
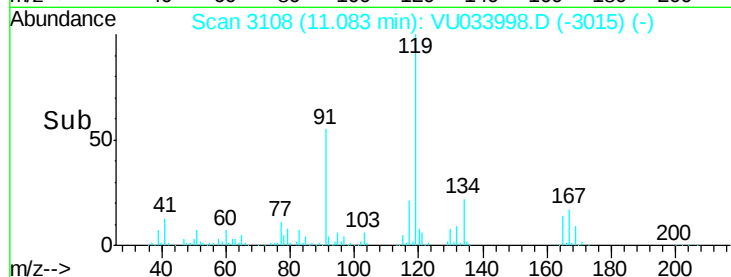
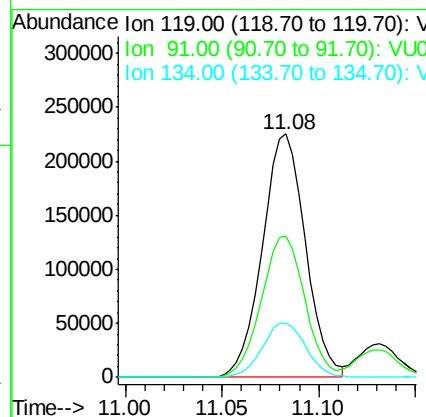
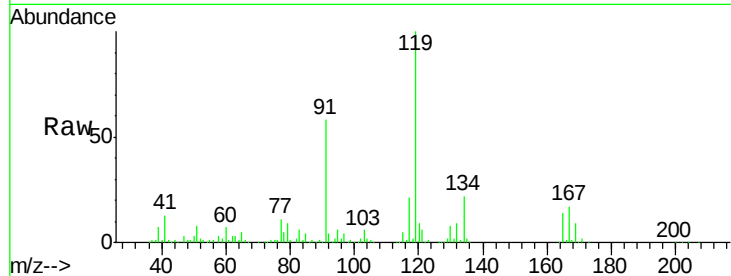
#83
 tert-Butylbenzene
 Concen: 20.943 ug/l
 RT: 11.08 min Scan# 3108
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	58.4	27.6	82.8
134	22.8	11.6	34.7

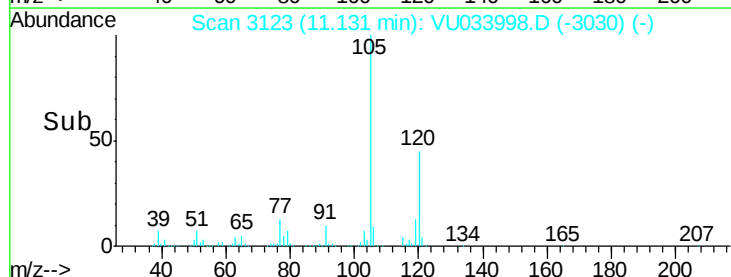
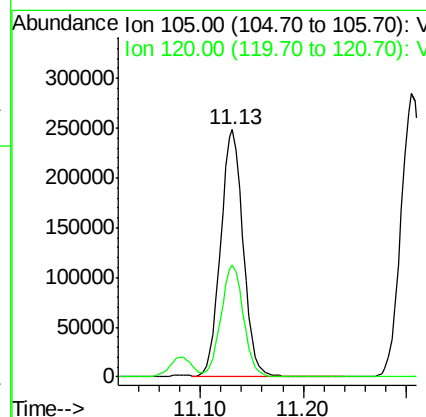
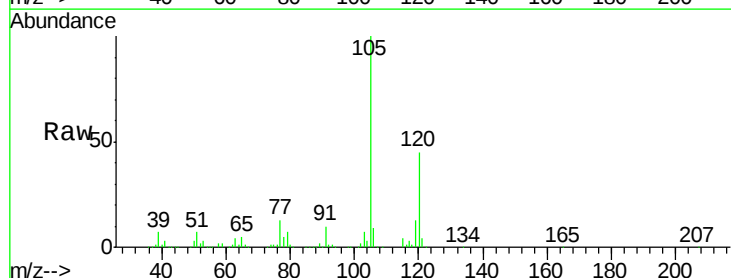
Manual Integrations
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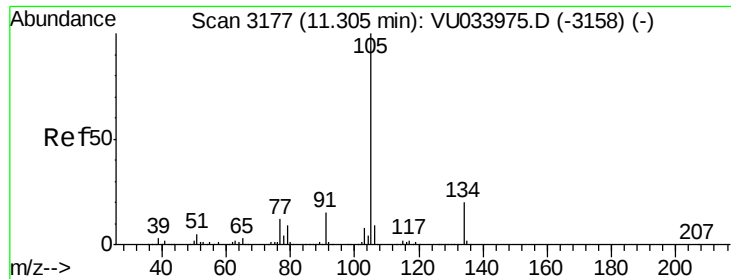
MMDadoda
 8/28/2019 10:00:44 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.198 ug/l
 RT: 11.13 min Scan# 3123
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.3	69.9





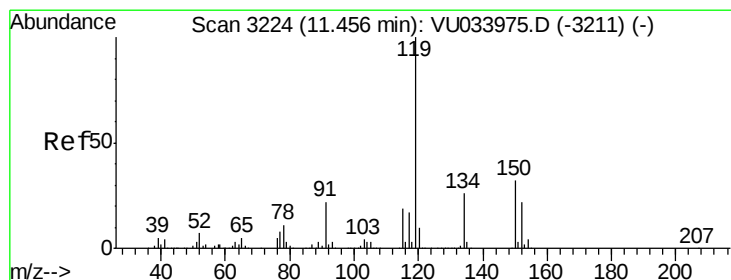
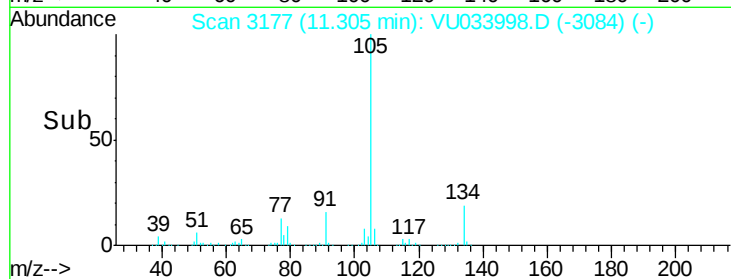
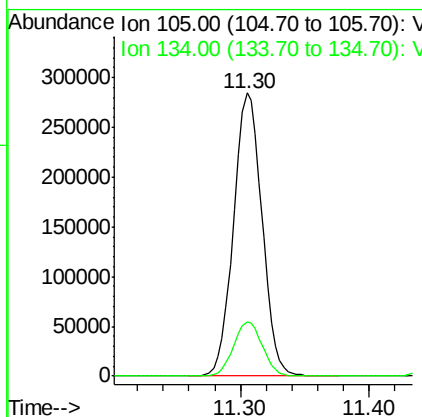
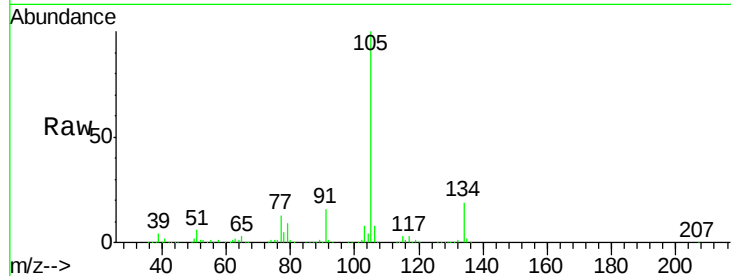
#85
 sec-Butylbenzene
 Concen: 21.803 ug/l
 RT: 11.30 min Scan# 3177
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.5	10.2	30.6

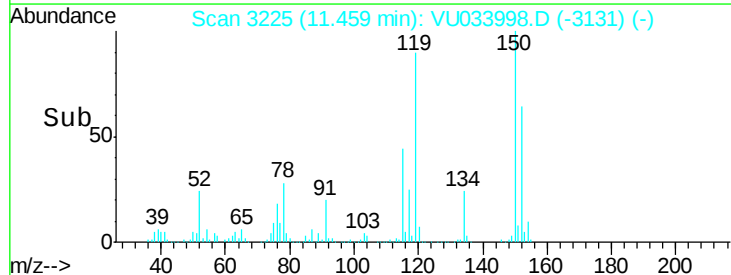
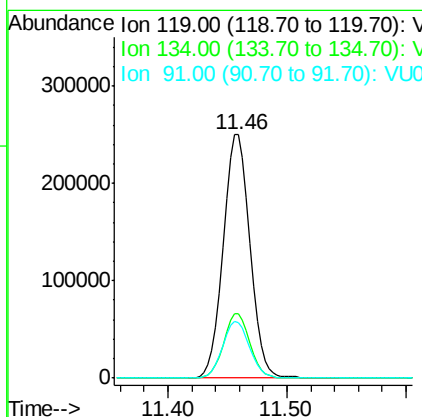
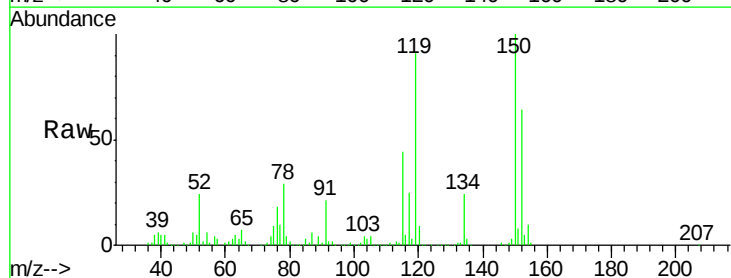
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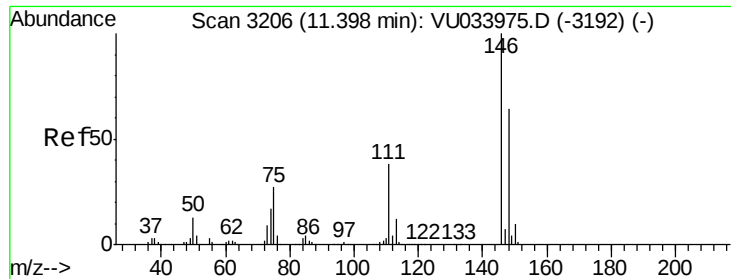
MMDadoda
 8/28/2019 10:00:44 AM



#86
 p-Isopropyltoluene
 Concen: 20.732 ug/l
 RT: 11.46 min Scan# 3225
 Delta R.T. 0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.0	38.9
91	23.5	10.9	32.9





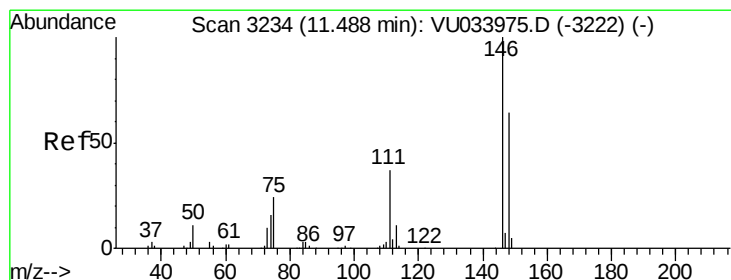
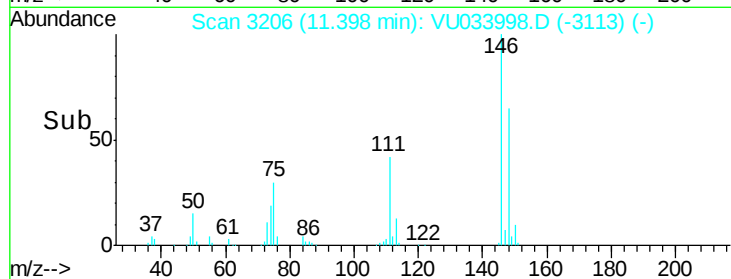
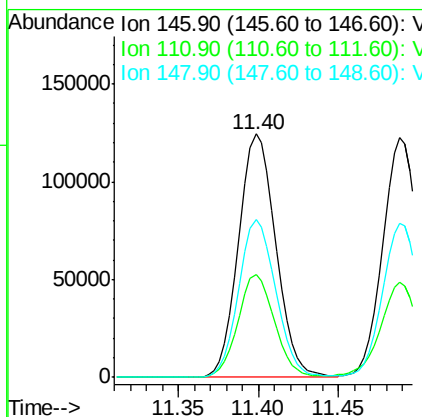
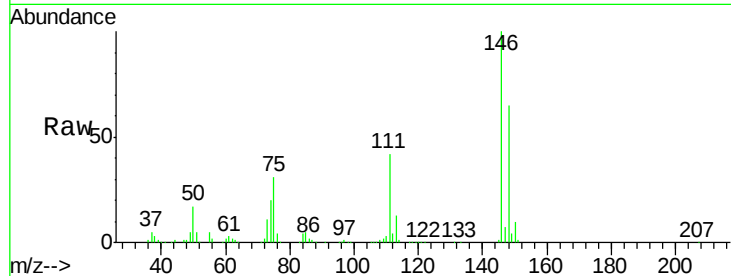
#87
 1,3-Dichlorobenzene
 Concen: 19.596 ug/l
 RT: 11.40 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	18.8	56.4
148	64.6	31.9	95.7

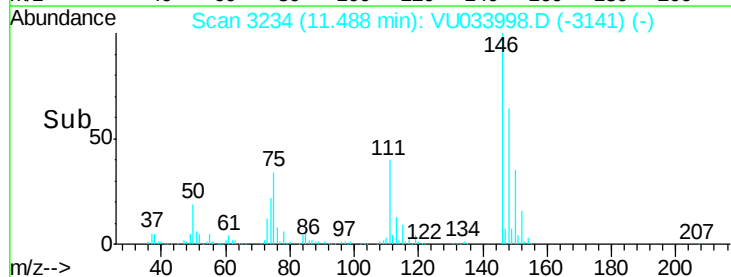
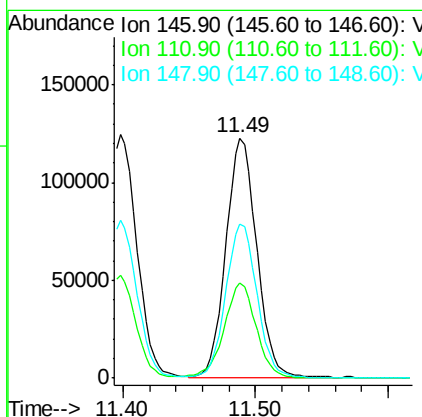
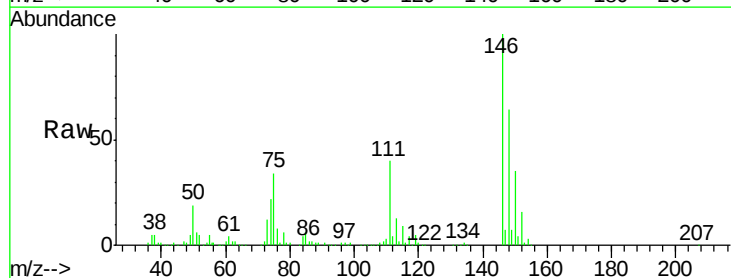
Manual Integrations
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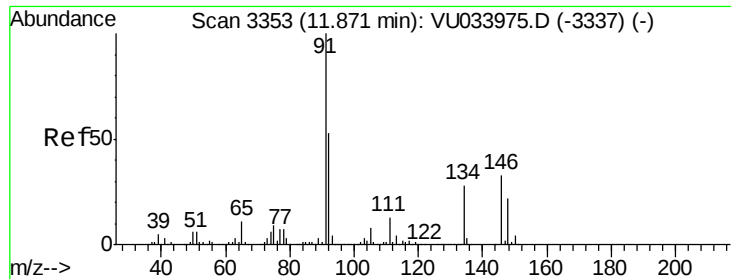
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 8/28/2019 10:00:44 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.354 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	18.8	56.4
148	64.9	31.9	95.7





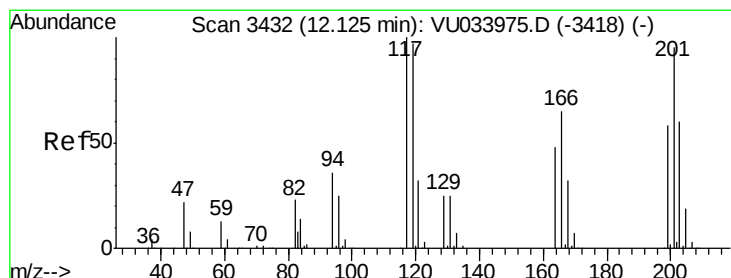
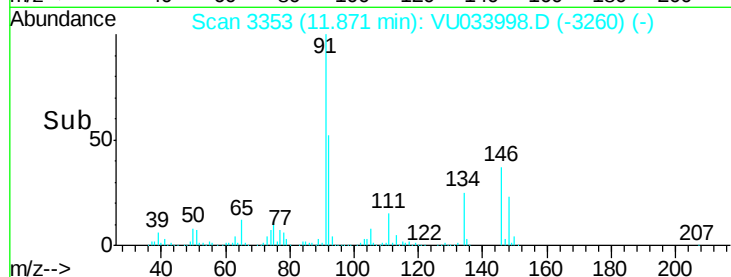
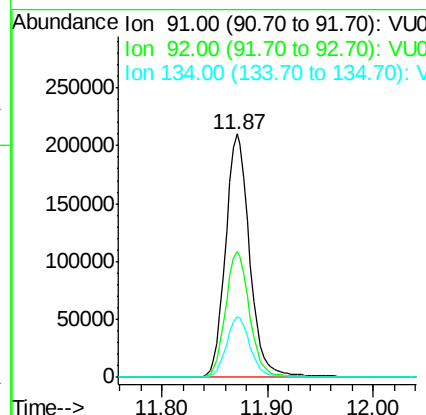
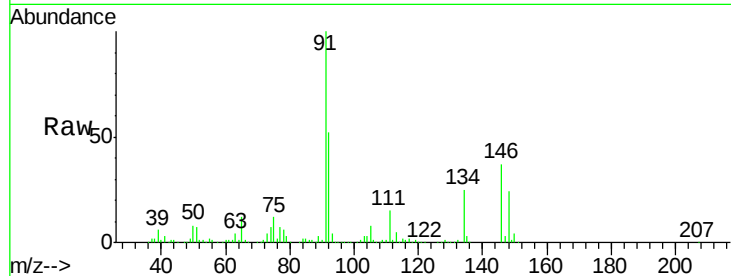
#89
n-Butylbenzene
Concen: 21.323 ug/l
RT: 11.87 min Scan# 3353
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.7	80.0
134	24.8	13.6	40.8

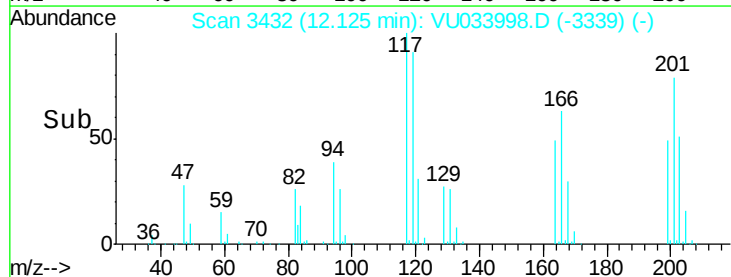
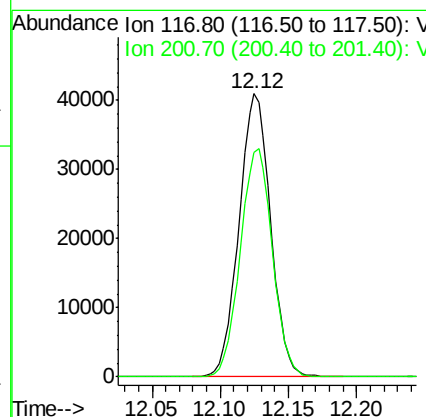
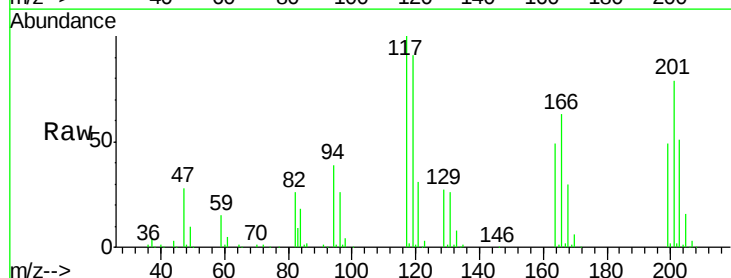
Manual Integrations
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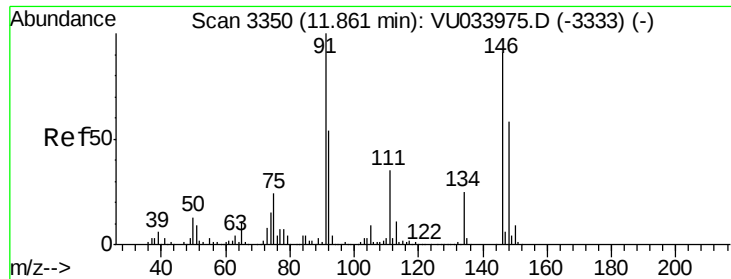
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#90
Hexachloroethane
Concen: 21.265 ug/l
RT: 12.12 min Scan# 3432
Delta R.T. -0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.0	47.5	142.5





#91

1,2-Dichlorobenzene

Concen: 19.746 ug/l

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Instrument :

MSVOA_U

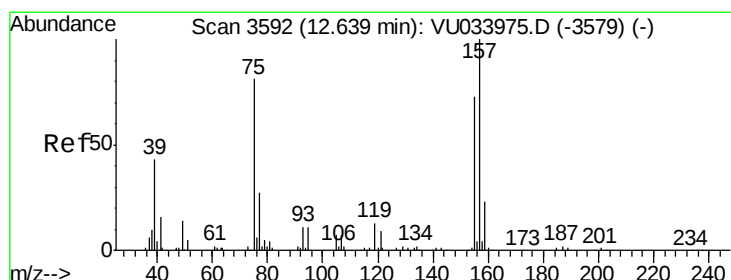
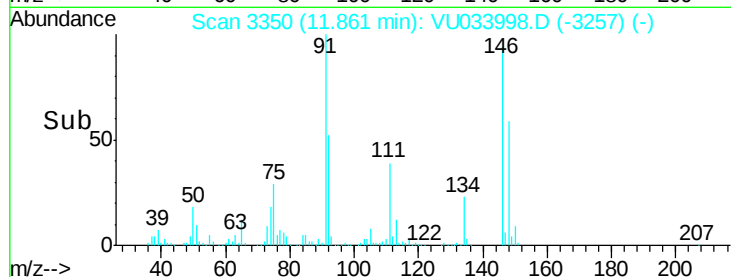
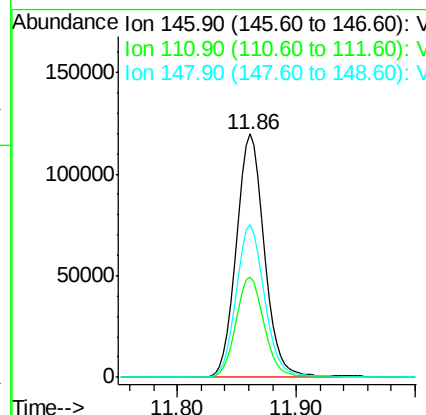
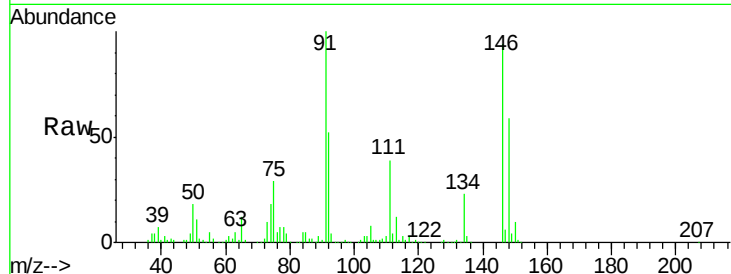
ClientSampleId :

VU0828WBS02

Tot Ion:	146	Resp:	196097
Ion Ratio	Lower	Upper	
146	100		
111	41.7	19.8	59.3
148	63.4	32.0	96.2

Manual Integrations
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8/28/2019 10:00:44 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 23.531 ug/l

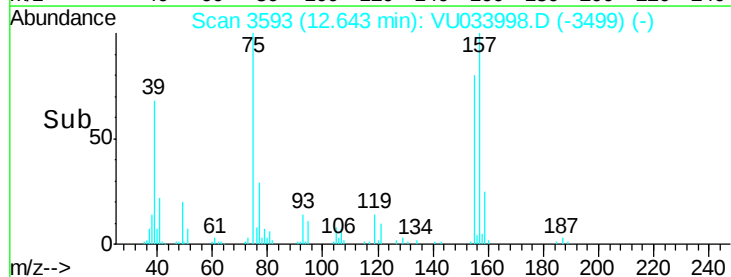
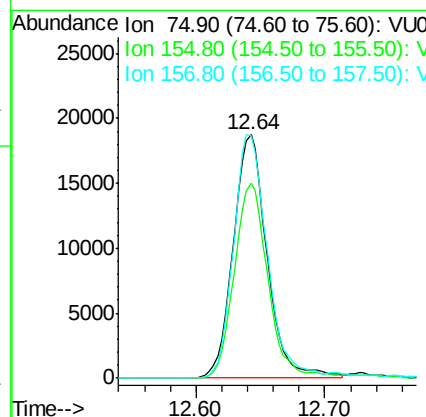
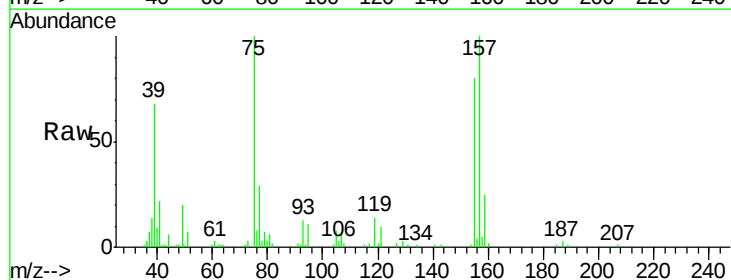
RT: 12.64 min Scan# 3593

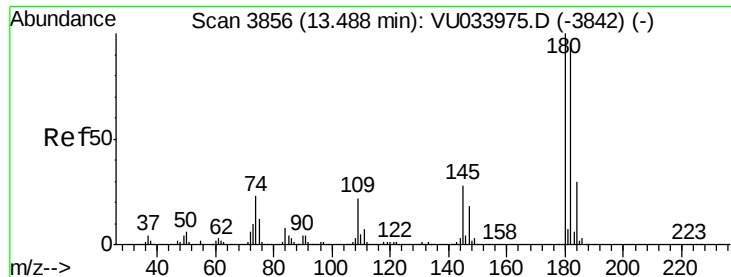
Delta R.T. 0.00 min

Lab File: VU033998.D

Acq: 28 Aug 2019 02:39

Tgt Ion:	75	Resp:	34165
Ion Ratio	Lower	Upper	
75	100		
155	79.4	46.9	140.6
157	99.3	61.2	183.6





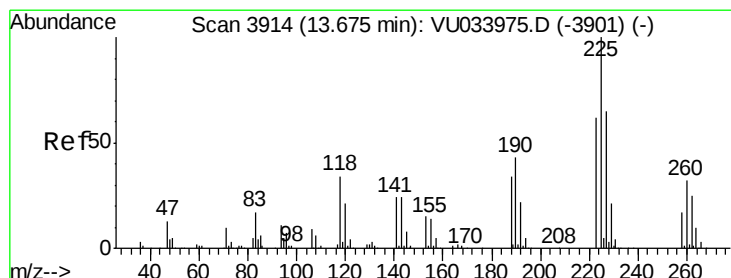
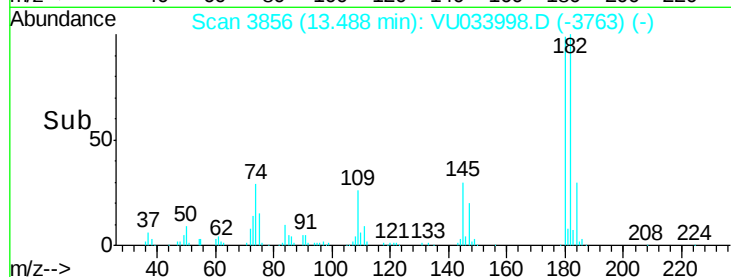
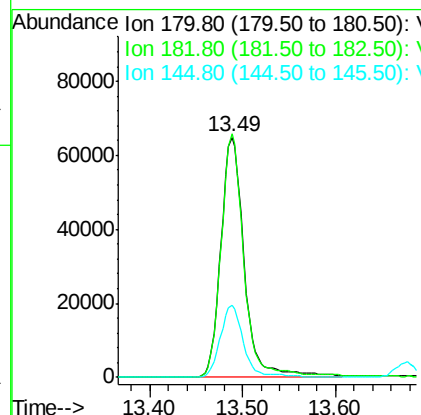
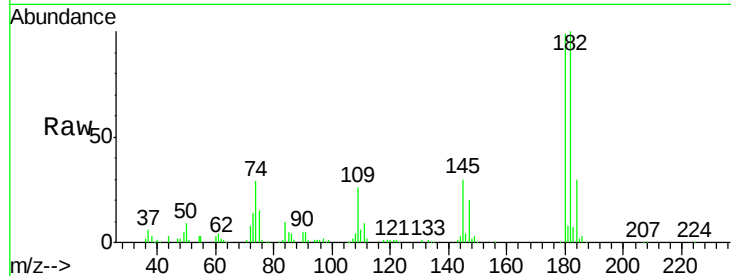
#93
 1,2,4-Trichlorobenzene
 Concen: 17.554 ug/l
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0828WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	98.1	47.4	142.2	
145	29.8	14.4	43.2	

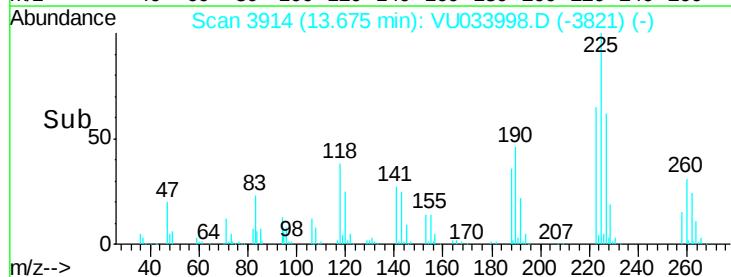
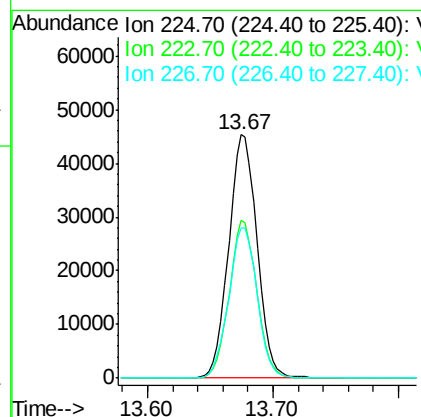
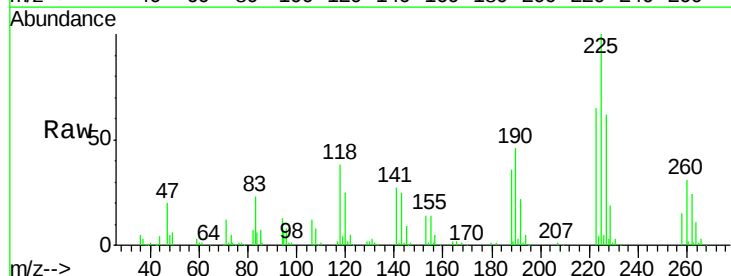
Manual Integrations
 APPROVED

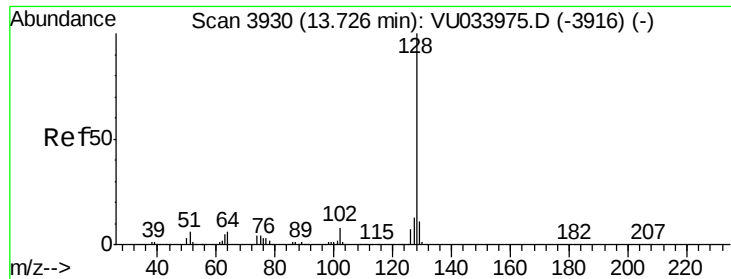
MMDadoda
 8/28/2019 10:00:44 AM



#94
 Hexachlorobutadiene
 Concen: 17.470 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. -0.00 min
 Lab File: VU033998.D
 Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.8	31.7	95.1	
227	61.5	33.0	99.0	





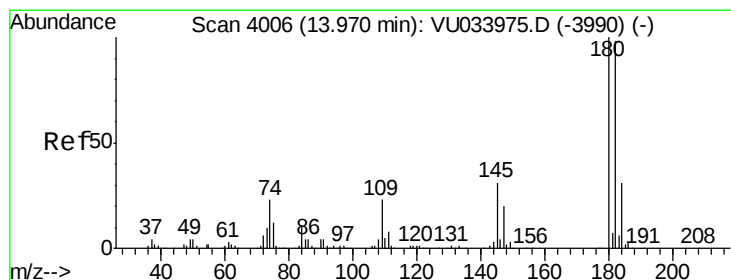
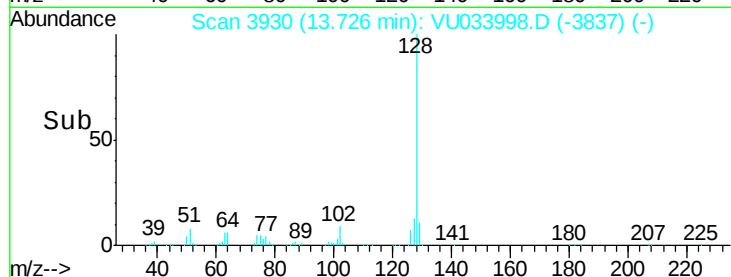
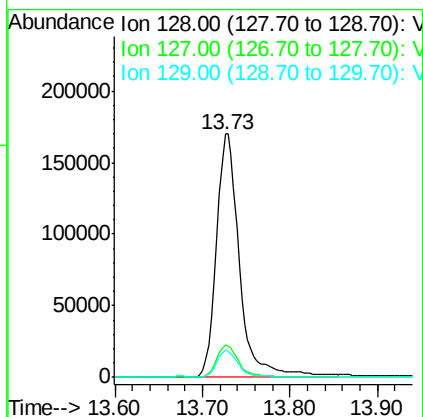
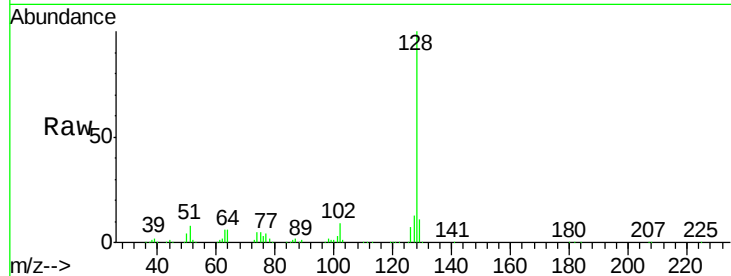
#95
Naphthalene
Concen: 17.650 ug/l
RT: 13.73 min Scan# 3930
Delta R.T. 0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Instrument :
MSVOA_U
ClientSampleId :
VU0828WBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.3	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
8/28/2019 10:00:44 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.700 ug/l
RT: 13.97 min Scan# 4007
Delta R.T. 0.00 min
Lab File: VU033998.D
Acq: 28 Aug 2019 02:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.4	145.3
145	31.0	15.1	45.3

