

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
 Data File : VU034343.D
 Acq On : 06 Sep 2019 20:03
 Operator : JC/SP
 Sample : K4722-17MSD
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Quant Time: Sep 07 04:10:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	326648	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	474850	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	467754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	304073	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	223390	45.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.40%	
35) Dibromofluoromethane	4.86	113	202410	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	
50) Toluene-d8	7.54	98	786030	47.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.70%	
62) 4-Bromofluorobenzene	10.29	95	298176	46.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.04%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.20	85	146556	42.900	ug/l	99
3) Chloromethane	1.32	50	167583	45.397	ug/l	97
4) Vinyl Chloride	1.40	62	179325	42.124	ug/l	99
5) Bromomethane	1.61	94	112626	52.326	ug/l	100
6) Chloroethane	1.69	64	115138	46.463	ug/l	99
7) Trichlorofluoromethane	1.87	101	249632	43.734	ug/l	100
8) Diethyl Ether	2.09	74	115662	46.066	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.27	101	165139	43.681	ug/l	100
10) Methyl Iodide	2.40	142	161347	46.906	ug/l	99
11) Tert butyl alcohol	2.81	59	272928	261.394	ug/l	99
12) 1,1-Dichloroethene	2.27	96	160587	45.185	ug/l	96
13) Acrolein	2.18	56	131019	149.297	ug/l	100
14) Allyl chloride	2.58	41	262219	38.593	ug/l	90
15) Acrylonitrile	2.92	53	618929	238.039	ug/l	98
16) Acetone	2.31	43	486773	190.324	ug/l	98
17) Carbon Disulfide	2.46	76	322171	40.334	ug/l	99
18) Methyl Acetate	2.60	43	258959	41.611	ug/l	97
19) Methyl tert-butyl Ether	2.98	73	628997	48.557	ug/l	100
20) Methylene Chloride	2.69	84	199692	47.650	ug/l	97
21) trans-1,2-Dichloroethene	2.97	96	214394	57.246	ug/l	98
22) Diisopropyl ether	3.55	45	630452	47.581	ug/l	97
23) Vinyl Acetate	3.50	43	2523410	233.799	ug/l	99
24) 1,1-Dichloroethane	3.43	63	354845	44.844	ug/l	100
25) 2-Butanone	4.24	43	804005	235.498	ug/l	100
26) 2,2-Dichloropropane	4.20	77	253787	39.877	ug/l	91
27) cis-1,2-Dichloroethene	4.20	96	407763	89.646	ug/l	92
28) Bromochloromethane	4.52	49	170135	46.745	ug/l	98
29) Tetrahydrofuran	4.61	42	508425	244.731	ug/l	98
30) Chloroform	4.65	83	362507	45.070	ug/l	99
31) Cyclohexane	4.97	56	259570	44.839	ug/l	99
32) 1,1,1-Trichloroethane	4.89	97	289644	45.041	ug/l	98
36) 1,1-Dichloropropene	5.12	75	235889	45.805	ug/l	99
37) Ethyl Acetate	4.36	43	277247	45.534	ug/l	99
38) Carbon Tetrachloride	5.11	117	242317	44.069	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	254736	46.273	ug/l	98
40) Benzene	5.37	78	770315	46.357	ug/l	99
41) Methacrylonitrile	4.52	41	164132	50.608	ug/l	99
42) 1,2-Dichloroethane	5.38	62	256723	44.498	ug/l	99
43) Isopropyl Acetate	5.53	43	446141	46.970	ug/l	98
44) Trichloroethene	6.16	130	1016989	221.166	ug/l	99
45) 1,2-Dichloropropane	6.41	63	222405	45.782	ug/l	98
46) Dibromomethane	6.54	93	139846	45.861	ug/l	98
47) Bromodichloromethane	6.74	83	281917	44.914	ug/l	99
48) Methyl methacrylate	6.60	41	216635	48.020	ug/l	99
49) 1,4-Dioxane	6.59	88	107755	1093.836	ug/l	98
51) 4-Methyl-2-Pentanone	7.44	43	1564624	237.975	ug/l	99
52) Toluene	7.62	92	491646	47.165	ug/l	100
53) t-1,3-Dichloropropene	7.86	75	303036	46.573	ug/l	100
54) cis-1,3-Dichloropropene	7.25	75	330258	46.247	ug/l	100
55) 1,1,2-Trichloroethane	8.05	97	216391	45.717	ug/l	99
56) Ethyl methacrylate	8.00	69	328668	45.968	ug/l	100
57) 1,3-Dichloropropane	8.22	76	355794	46.162	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.08	63	958	16.983	ug/l #	48
59) 2-Hexanone	8.34	43	1197969	243.902	ug/l	99
60) Dibromochloromethane	8.46	129	241545	47.577	ug/l	99
61) 1,2-Dibromoethane	8.57	107	217385	46.923	ug/l	100
64) Tetrachloroethene	8.21	164	185581	45.732	ug/l	98
65) Chlorobenzene	9.10	112	575623	48.506	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.19	131	210843	46.555	ug/l	98
67) Ethyl Benzene	9.23	91	969308	49.955	ug/l	100
68) m/p-Xylenes	9.35	106	745584	102.043	ug/l	99
69) o-Xylene	9.76	106	373285	52.240	ug/l	99
70) Styrene	9.77	104	661209	52.778	ug/l	98
71) Bromoform	9.94	173	186476	47.509	ug/l #	100
73) Isopropylbenzene	10.14	105	998965	50.482	ug/l	99
74) N-amyl acetate	9.99	43	406712	51.060	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	373072	46.577	ug/l	100
76) 1,2,3-Trichloropropane	10.47	75	398828	60.088	ug/l	84
77) Bromobenzene	10.43	156	274337	49.581	ug/l	97
78) n-propylbenzene	10.57	91	1149076	50.280	ug/l	100
79) 2-Chlorotoluene	10.64	91	691330	49.578	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	860562	51.998	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.47	75	400437	202.888	ug/l #	100
82) 4-Chlorotoluene	10.75	91	800577	49.889	ug/l	99
83) tert-Butylbenzene	11.08	119	850012	51.341	ug/l	99
84) 1,2,4-Trimethylbenzene	11.12	105	867080	52.048	ug/l	100
85) sec-Butylbenzene	11.30	105	1007537	51.548	ug/l	100
86) p-Isopropyltoluene	11.45	119	932824	51.708	ug/l	99
87) 1,3-Dichlorobenzene	11.40	146	496095	49.135	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	495243	47.027	ug/l	99
89) n-Butylbenzene	11.87	91	823496	52.527	ug/l	99
90) Hexachloroethane	12.12	117	135181	46.836	ug/l	98
91) 1,2-Dichlorobenzene	11.86	146	487909	49.170	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	76482	51.962	ug/l	95

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Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

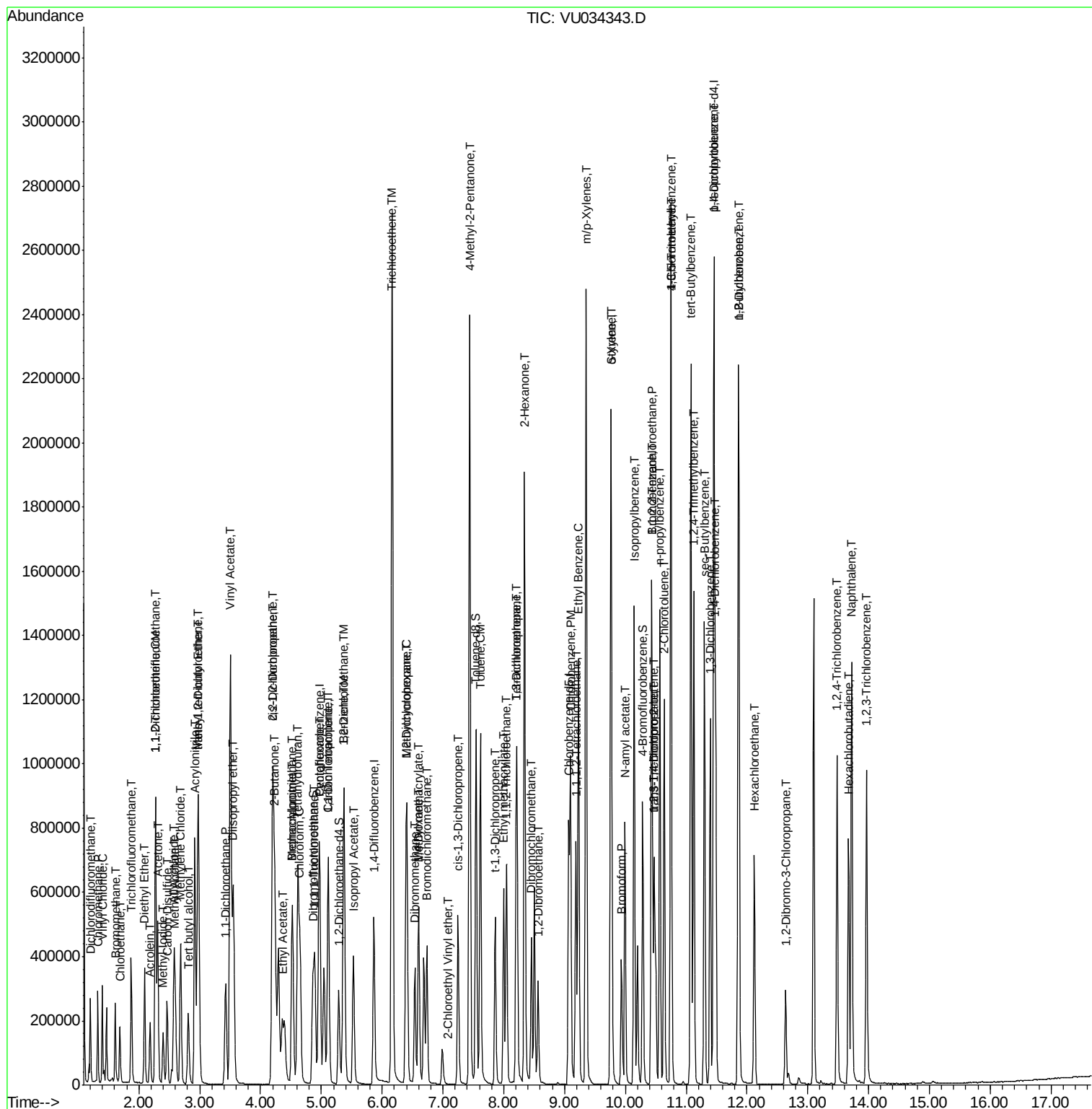
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.48	180	353902	49.233	ug/l	100
94) Hexachlorobutadiene	13.67	225	156470	45.080	ug/l	99
95) Naphthalene	13.72	128	1112471	54.506	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	345976	49.785	ug/l	99

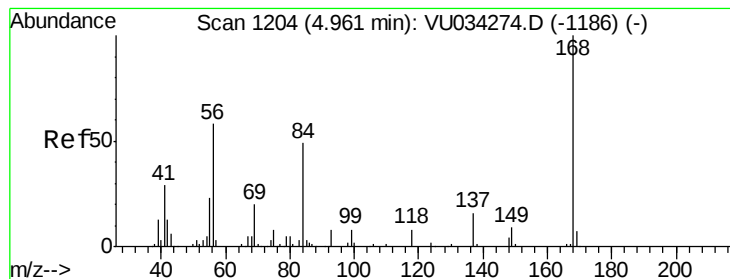
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

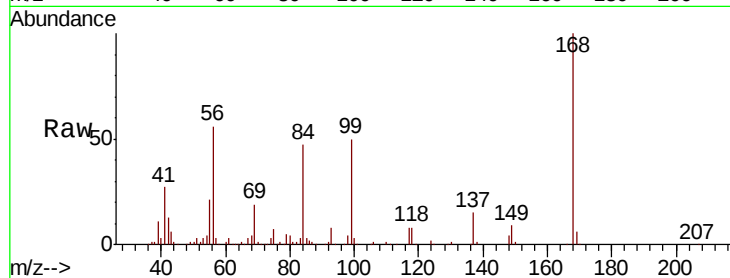
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion:168 Resp: 326648

Ion Ratio Lower Upper

168 100

99 49.8 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

150000

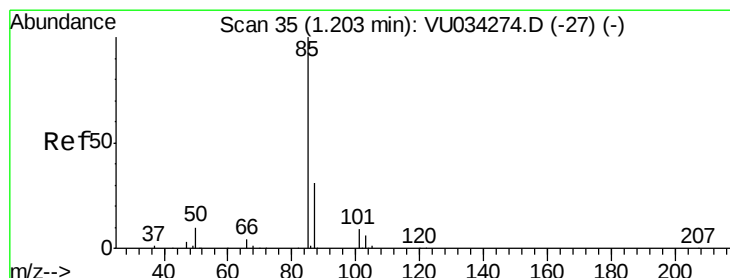
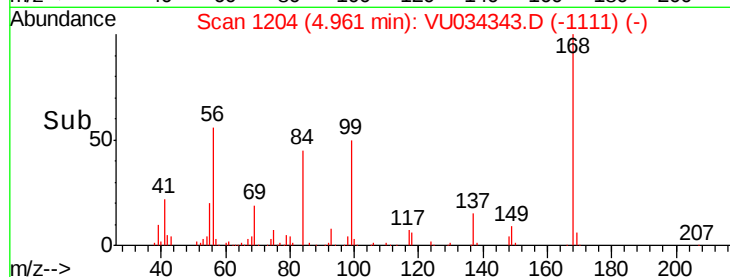
100000

50000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 42.900 ug/l

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU034343.D

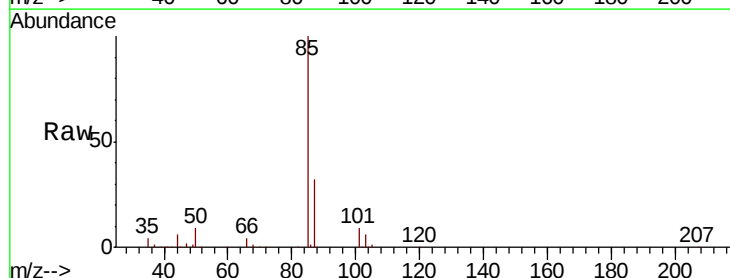
Acq: 06 Sep 2019 20:03

Tgt Ion: 85 Resp: 146556

Ion Ratio Lower Upper

85 100

87 32.0 15.7 47.0



Abundance Ion 84.90 (84.60 to 85.60): VU034274.D (-27) (-)

Ion 86.90 (86.60 to 87.60): VU034274.D (-27) (-)

1.20

150000

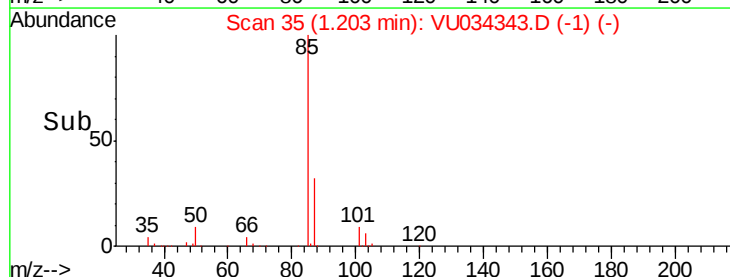
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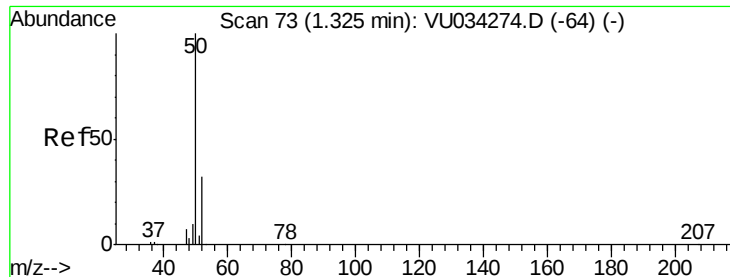
50000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 45.397 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

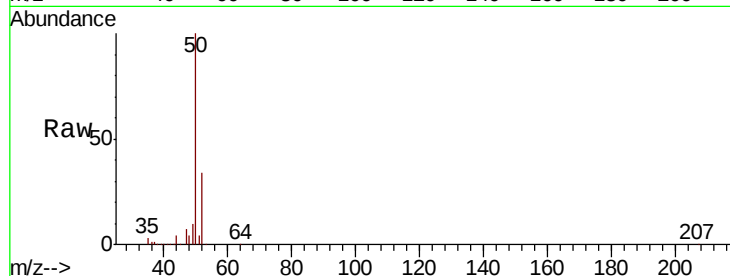
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 50 Resp: 167583

Ion Ratio Lower Upper

50 100

52 33.6 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VU034274.D (-64) (-)

Ion 51.90 (51.60 to 52.60): VU034343.D (-1) (-)

1.32

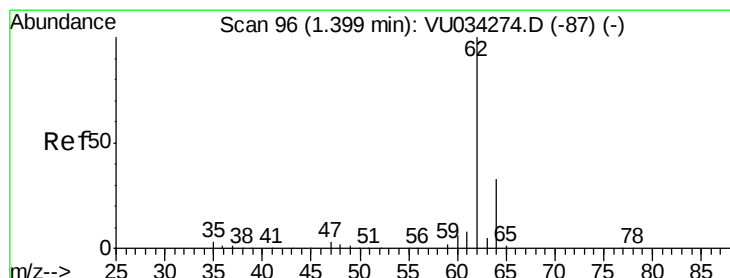
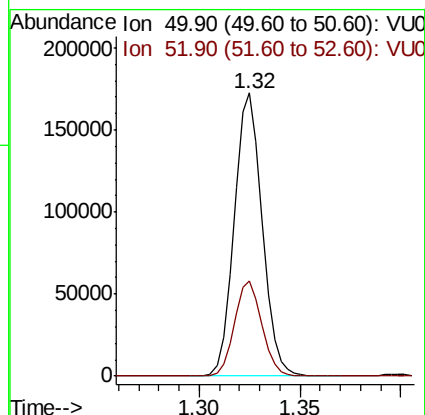
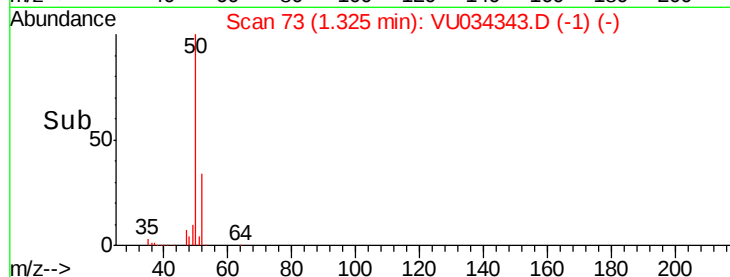
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 42.124 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU034343.D

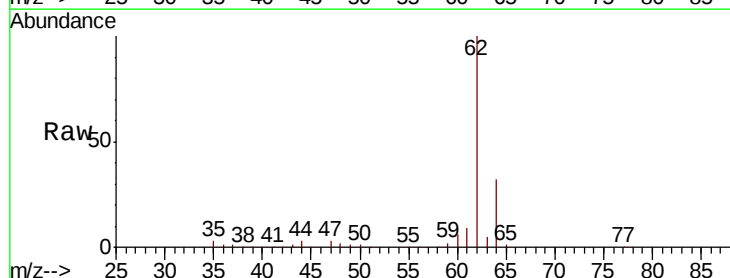
Acq: 06 Sep 2019 20:03

Tgt Ion: 62 Resp: 179325

Ion Ratio Lower Upper

62 100

64 32.0 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VU034274.D (-87) (-)

Ion 63.90 (63.60 to 64.60): VU034343.D (-3) (-)

1.40

200000

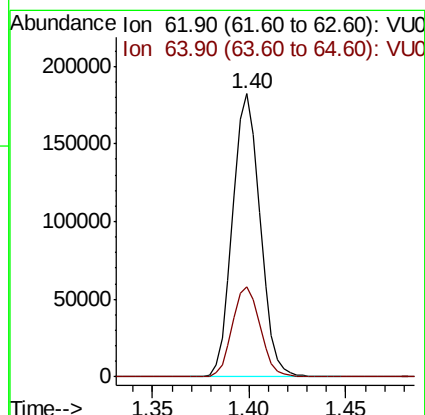
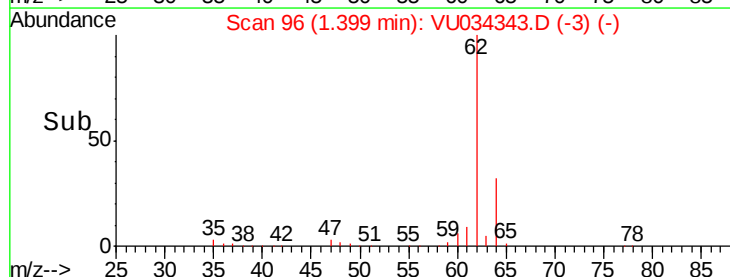
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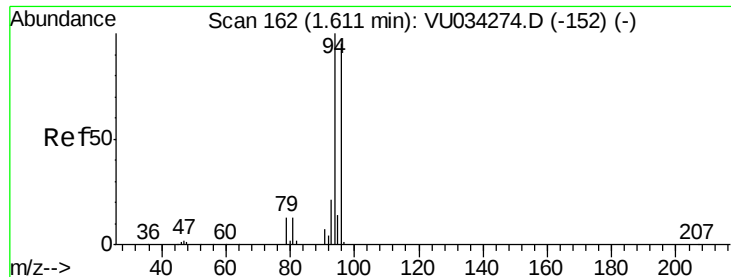
100000

50000

0

Time-->





#5

Bromomethane

Concen: 52.326 ug/l

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

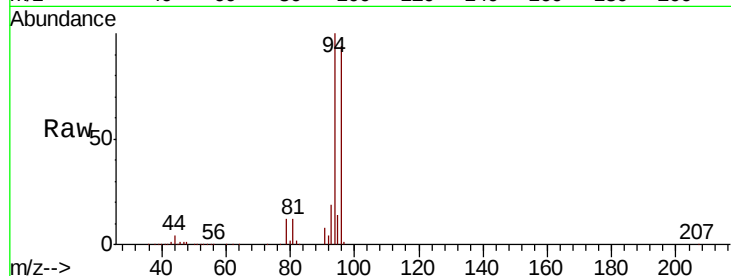
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 94 Resp: 112626

Ion Ratio Lower Upper

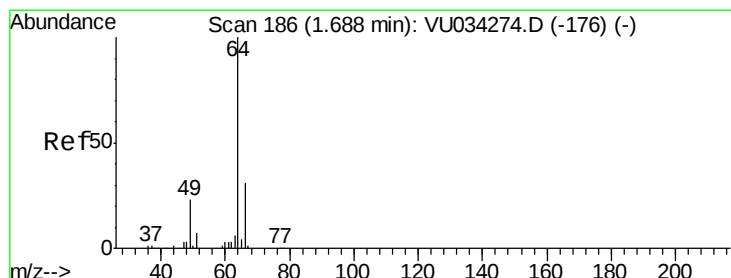
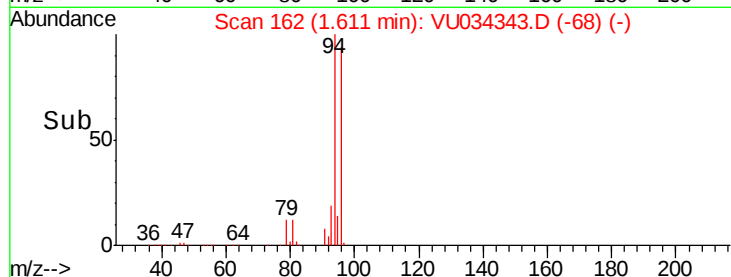
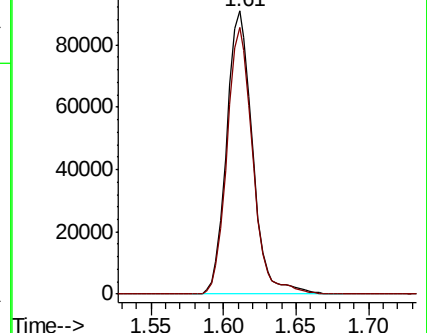
94 100

96 94.3 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034343.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034343.D (-152) (-)



#6

Chloroethane

Concen: 46.463 ug/l

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034343.D

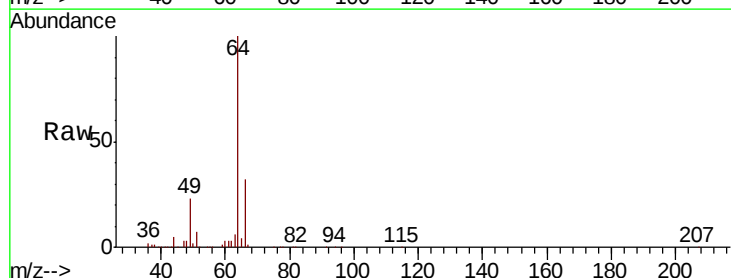
Acq: 06 Sep 2019 20:03

Tgt Ion: 64 Resp: 115138

Ion Ratio Lower Upper

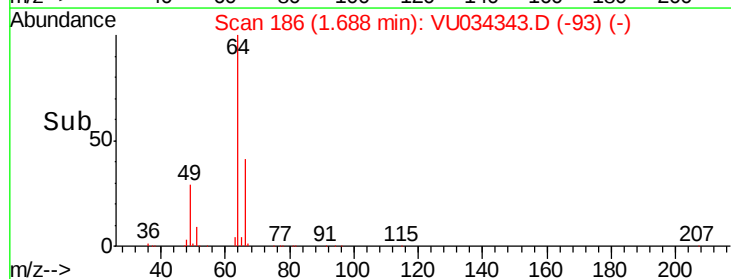
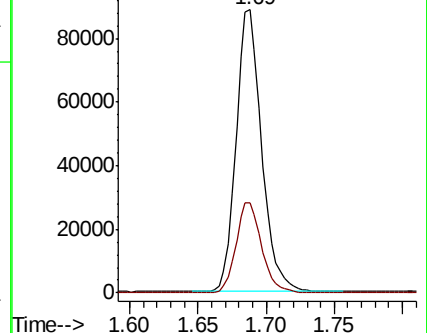
64 100

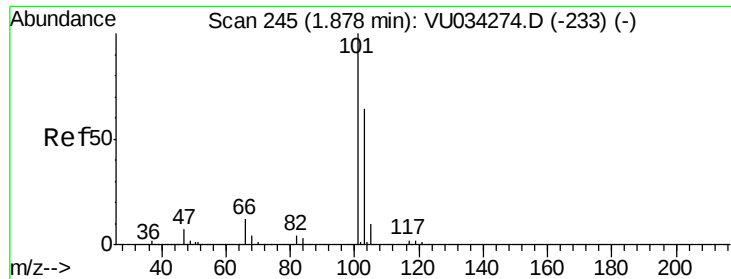
66 31.9 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU034343.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034343.D (-176) (-)



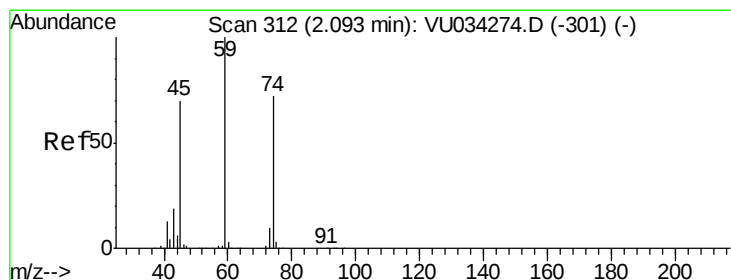
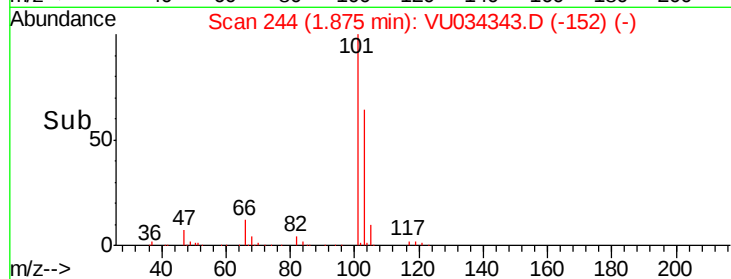
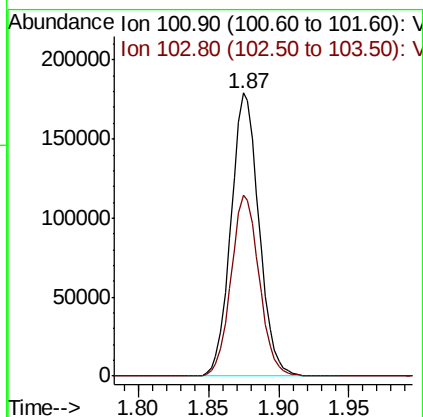
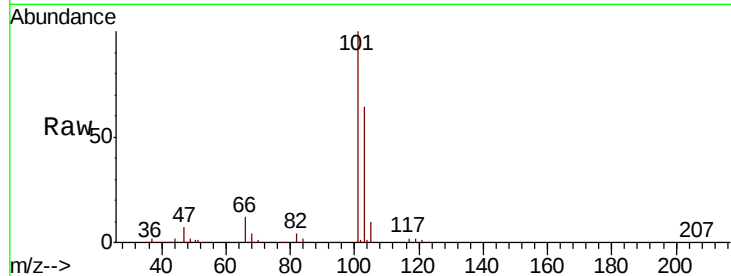


#7

Trichlorofluoromethane
 Concen: 43.734 ug/l
 RT: 1.87 min Scan# 244
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

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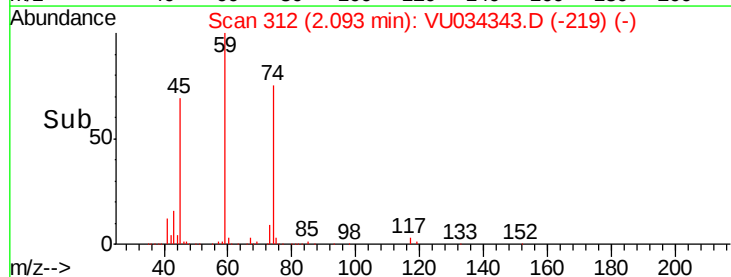
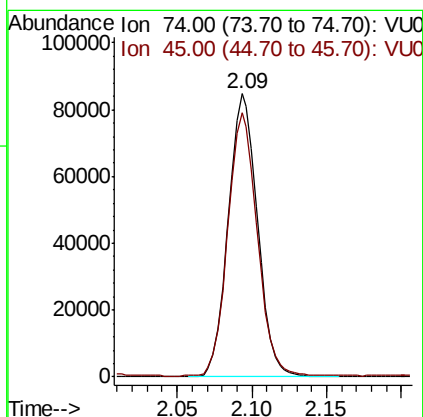
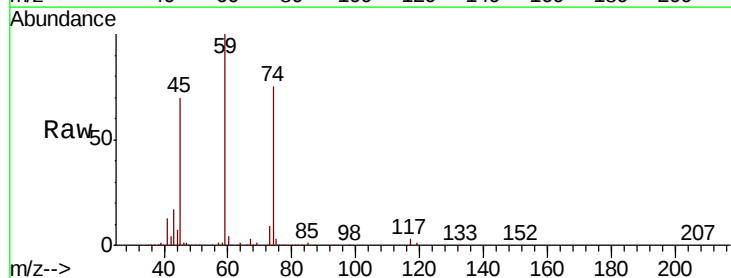
Tgt Ion:101 Resp: 249632
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.0 76.6

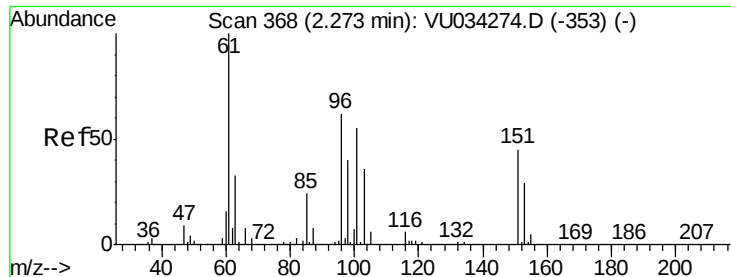


#8

Diethyl Ether
 Concen: 46.066 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion: 74 Resp: 115662
 Ion Ratio Lower Upper
 74 100
 45 93.3 48.2 144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.681 ug/l

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

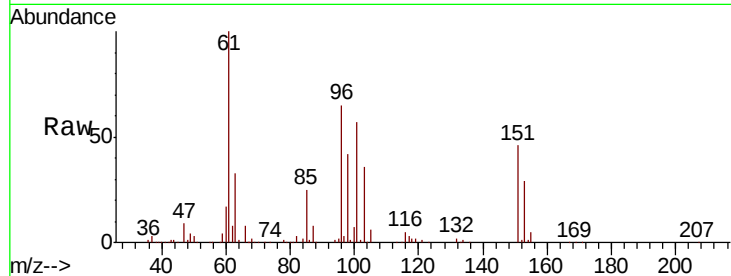
Tgt Ion:101 Resp: 165139

Ion Ratio Lower Upper

101 100

85 42.5 34.4 51.6

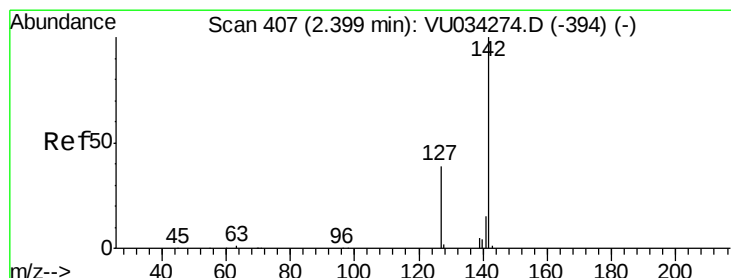
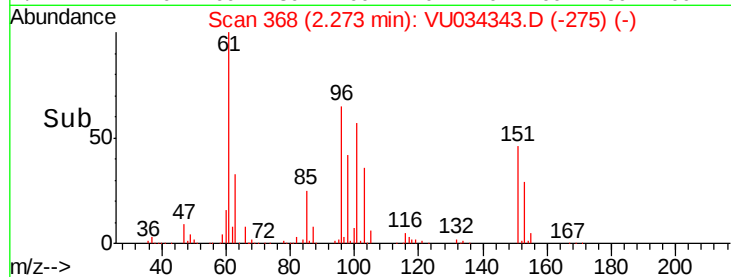
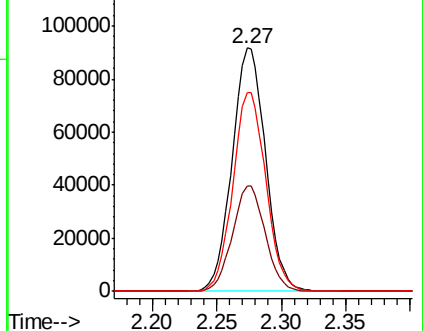
151 80.7 64.4 96.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 46.906 ug/l

RT: 2.40 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

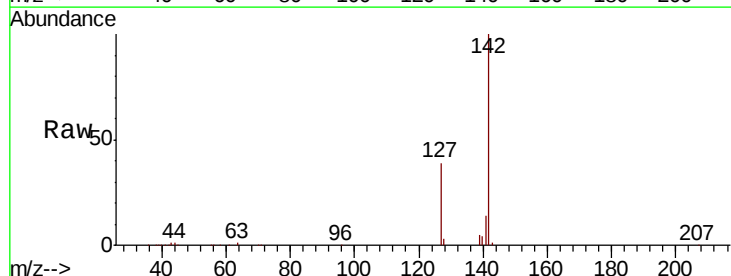
Tgt Ion:142 Resp: 161347

Ion Ratio Lower Upper

142 100

127 39.6 32.1 48.1

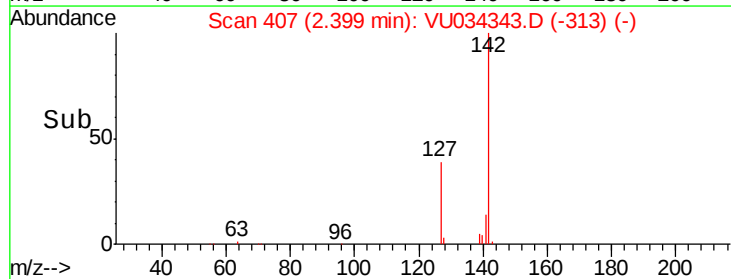
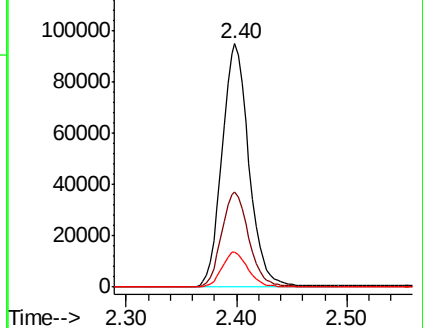
141 13.9 11.5 17.3

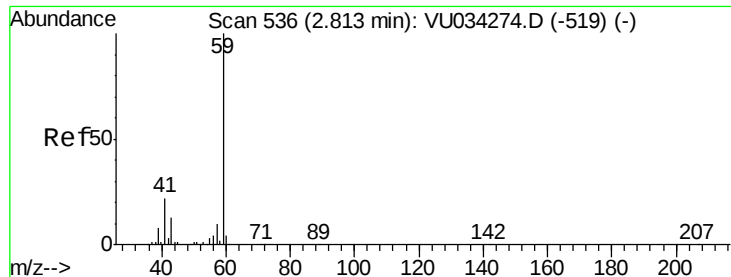


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

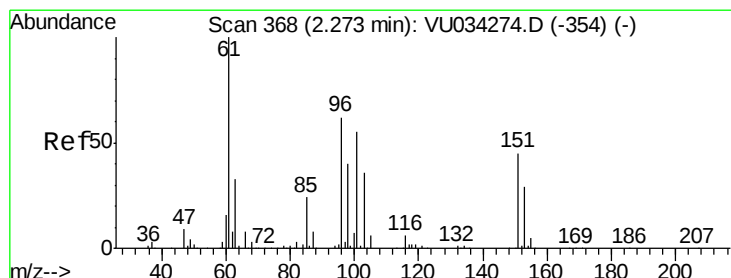
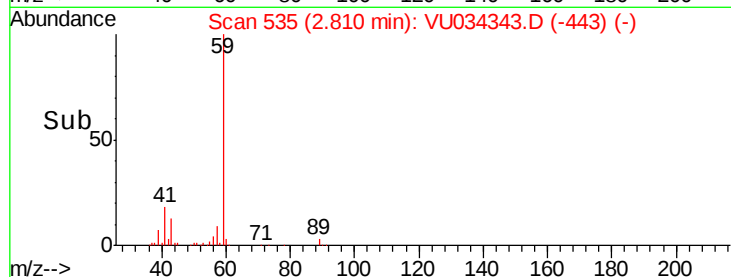
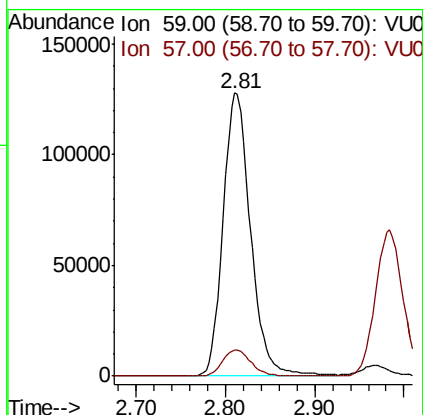
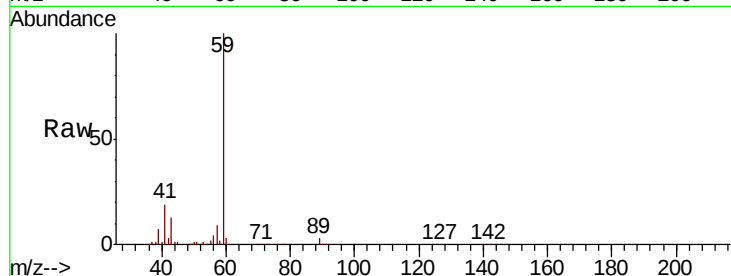




#11
Tert butyl alcohol
Concen: 261.394 ug/l
RT: 2.81 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

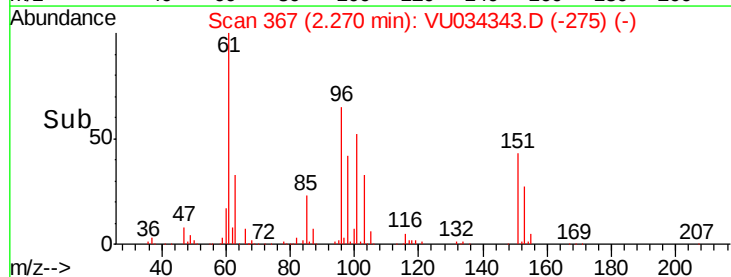
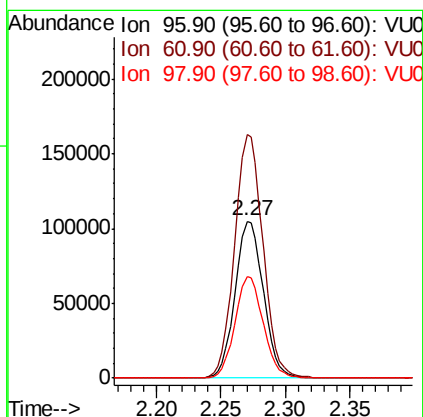
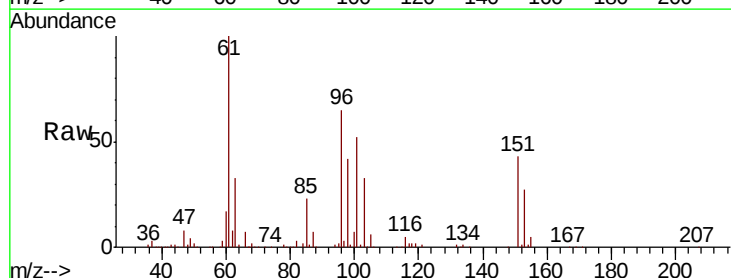
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

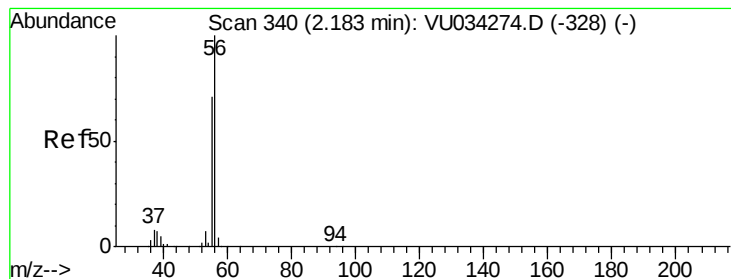
Tgt Ion: 59 Resp: 272928
Ion Ratio Lower Upper
59 100
57 9.5 7.9 11.9



#12
1,1-Dichloroethene
Concen: 45.185 ug/l
RT: 2.27 min Scan# 367
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 96 Resp: 160587
Ion Ratio Lower Upper
96 100
61 155.0 130.0 195.0
98 64.3 52.2 78.4





#13

Acrolein

Concen: 149.297 ug/l

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

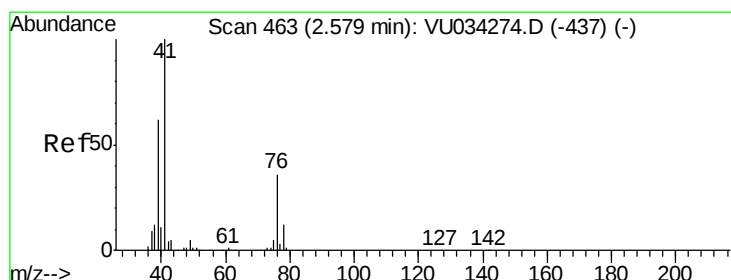
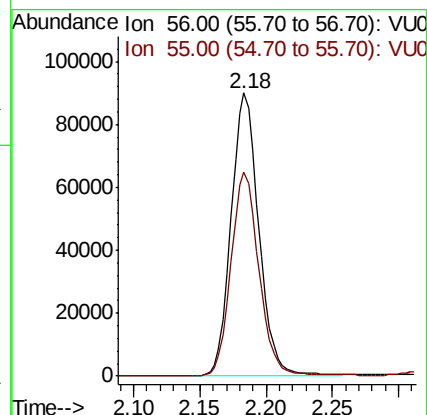
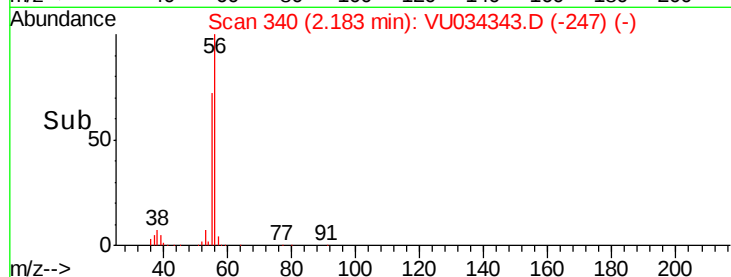
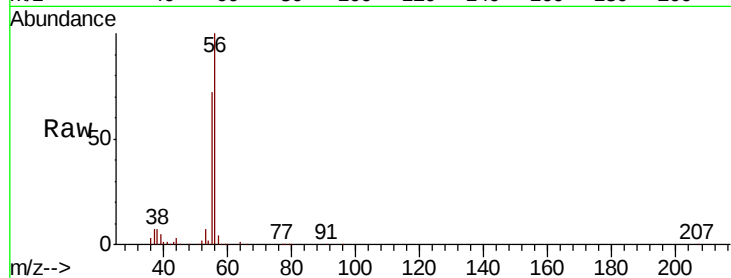
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 56 Resp: 131019

Ion Ratio Lower Upper

56 100

55 71.9 57.4 86.2



#14

Allyl chloride

Concen: 38.593 ug/l

RT: 2.58 min Scan# 463

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

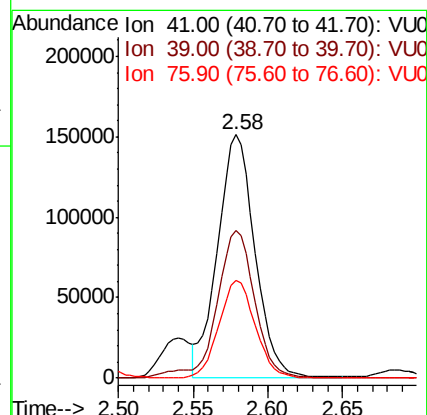
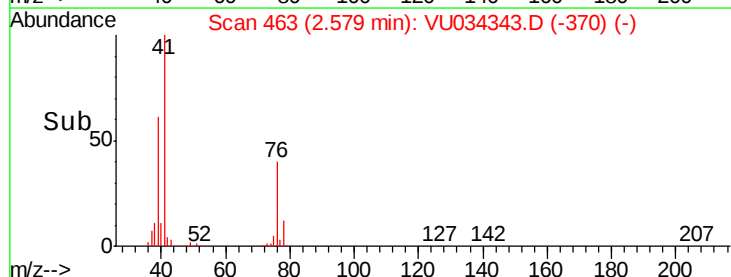
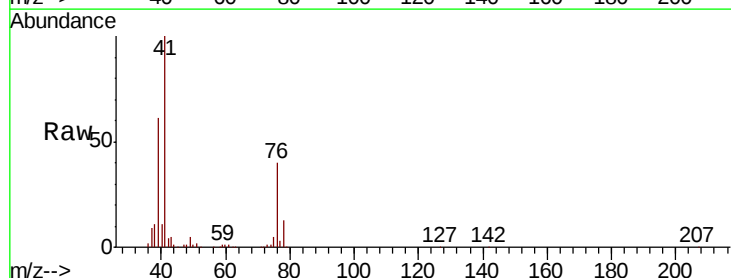
Tgt Ion: 41 Resp: 262219

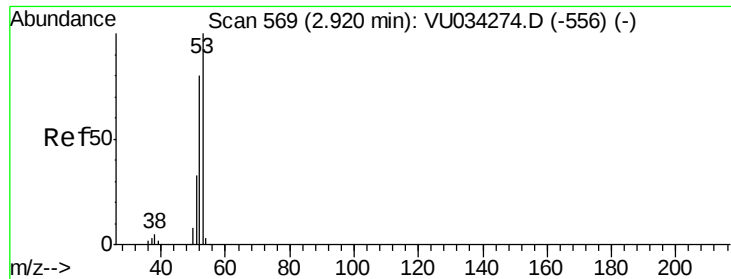
Ion Ratio Lower Upper

41 100

39 62.0 43.5 65.3

76 38.7 27.0 40.6





#15

Acrylonitrile

Concen: 238.039 ug/l

RT: 2.92 min Scan# 569

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

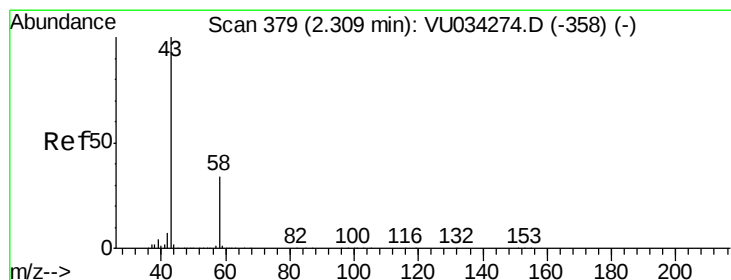
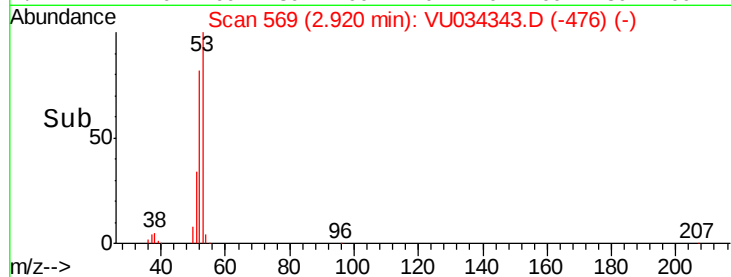
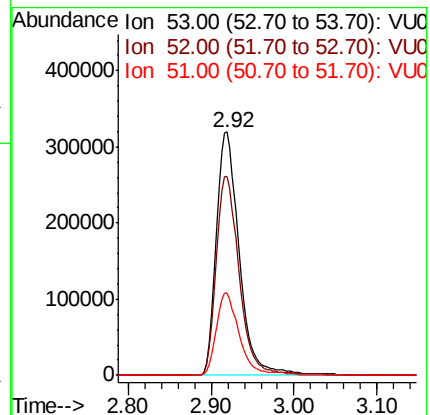
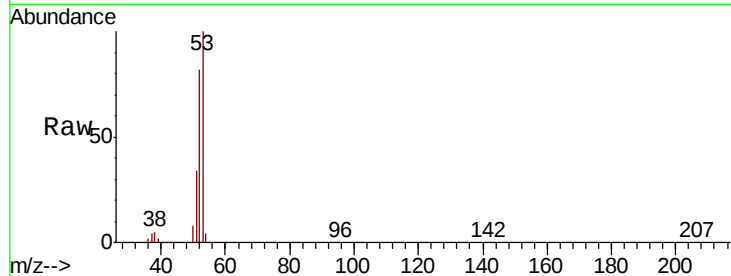
Tgt Ion: 53 Resp: 618929

Ion Ratio Lower Upper

53 100

52 82.2 64.1 96.1

51 33.0 27.4 41.0



#16

Acetone

Concen: 190.324 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU034343.D

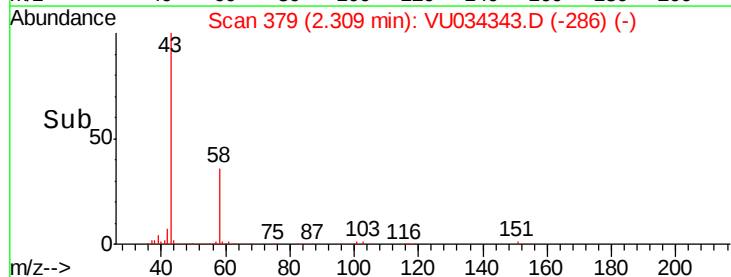
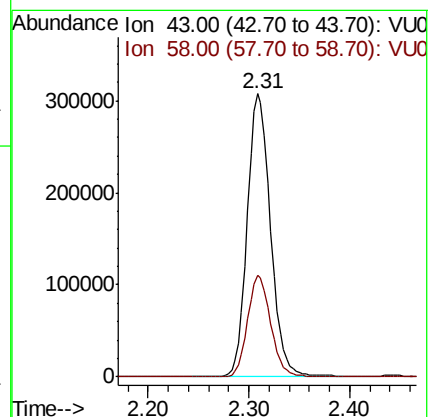
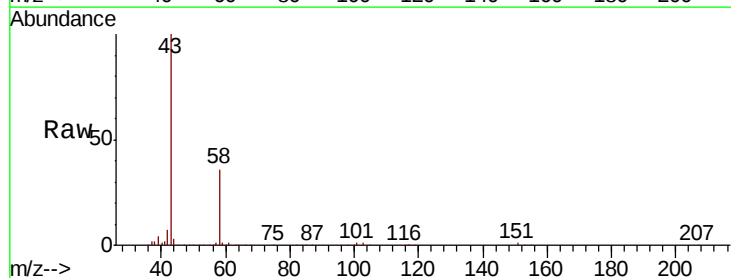
Acq: 06 Sep 2019 20:03

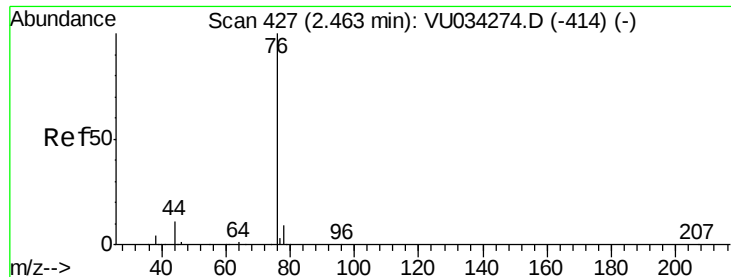
Tgt Ion: 43 Resp: 486773

Ion Ratio Lower Upper

43 100

58 35.7 27.6 41.4

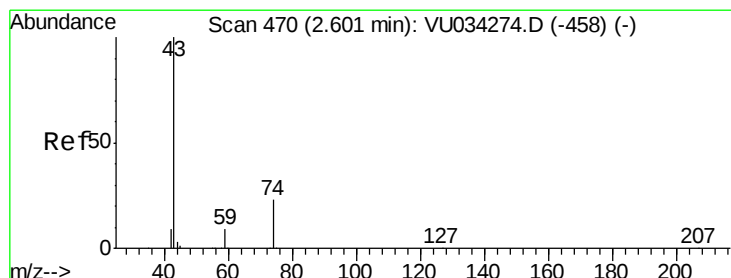
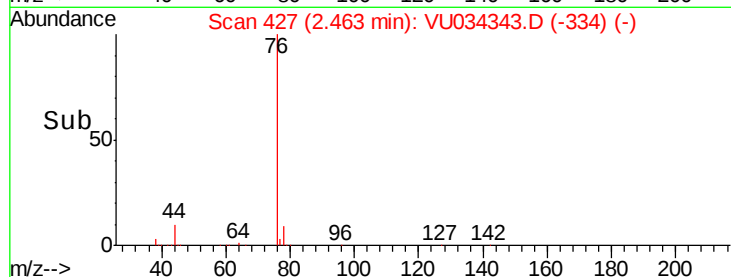
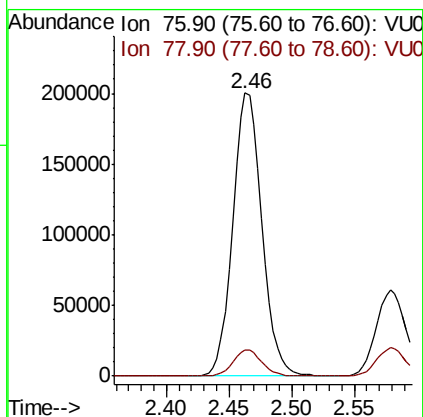
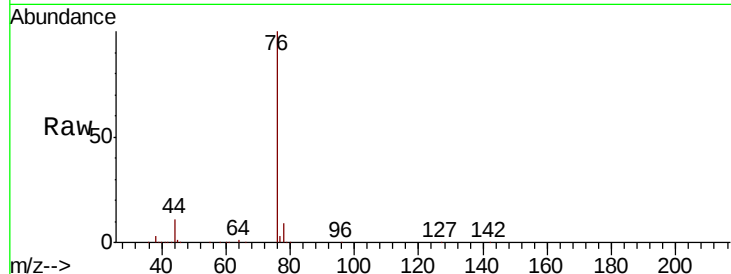




#17
Carbon Disulfide
Concen: 40.334 ug/l
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

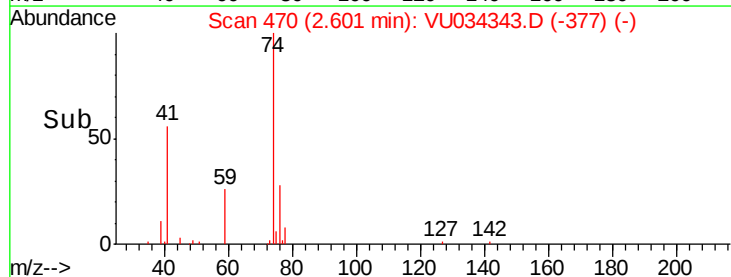
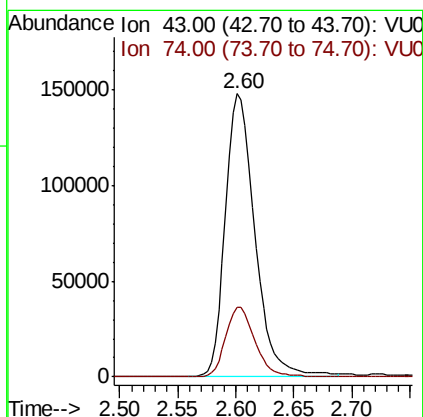
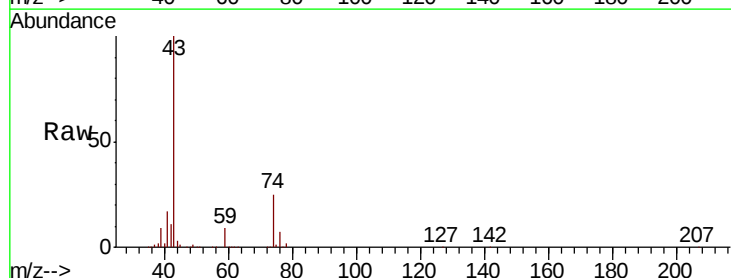
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

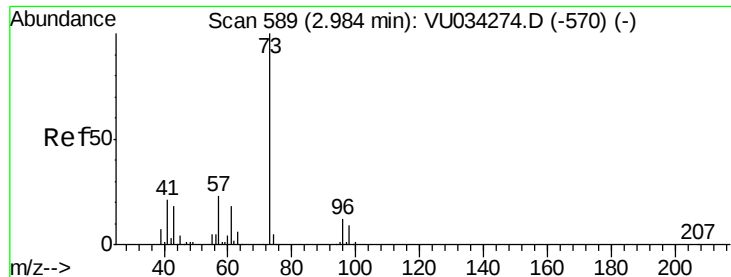
Tgt Ion: 76 Resp: 322171
Ion Ratio Lower Upper
76 100
78 9.2 7.2 10.8



#18
Methyl Acetate
Concen: 41.611 ug/l
RT: 2.60 min Scan# 470
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 43 Resp: 258959
Ion Ratio Lower Upper
43 100
74 24.9 18.9 28.3

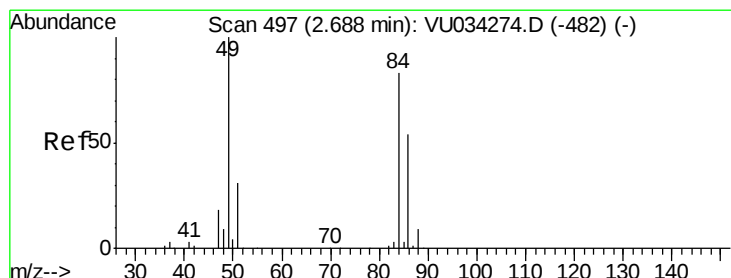
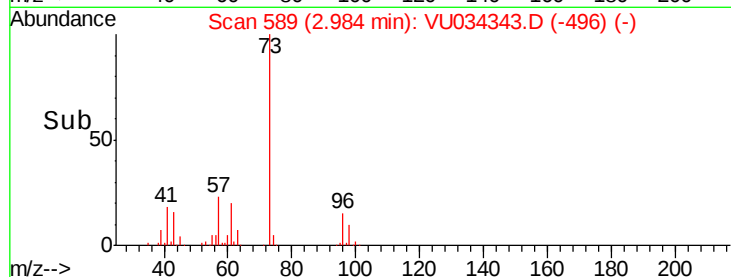
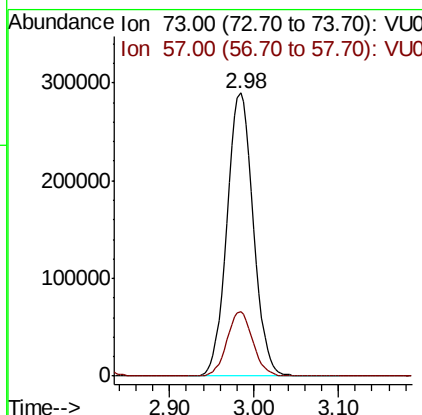
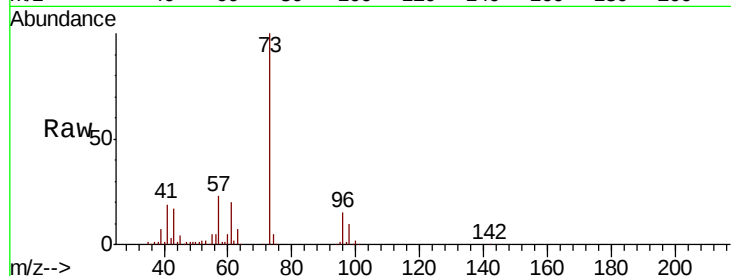




#19
Methyl tert-butyl Ether
Concen: 48.557 ug/l
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

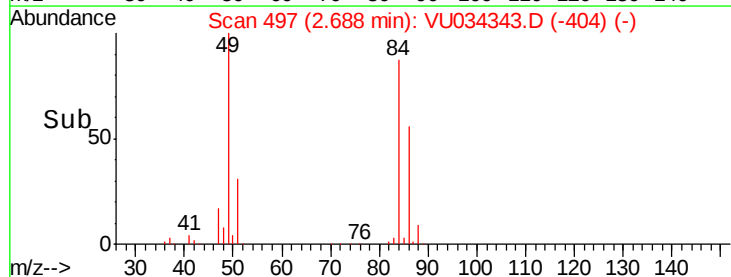
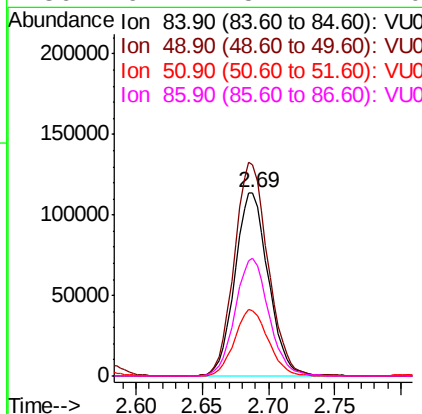
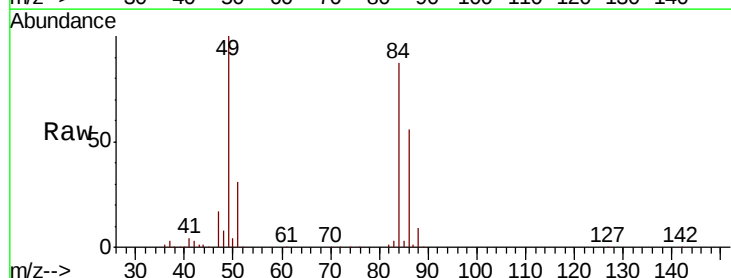
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

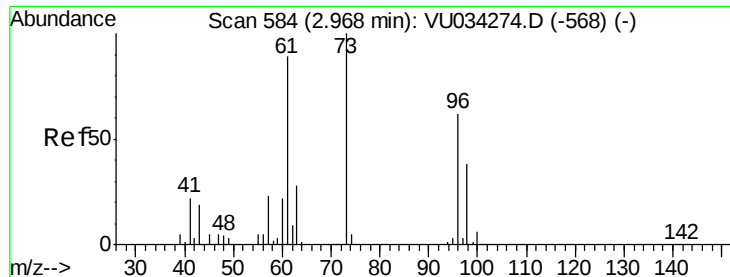
Tgt Ion: 73 Resp: 628997
Ion Ratio Lower Upper
73 100
57 22.9 18.2 27.4



#20
Methylene Chloride
Concen: 47.650 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 84 Resp: 199692
Ion Ratio Lower Upper
84 100
49 115.3 96.0 144.0
51 35.6 30.0 45.0
86 64.1 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 57.246 ug/l

RT: 2.97 min Scan# 584

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

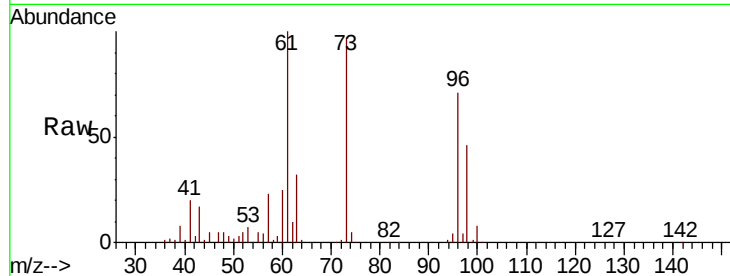
Tgt Ion: 96 Resp: 214394

Ion Ratio Lower Upper

96 100

61 140.8 114.8 172.2

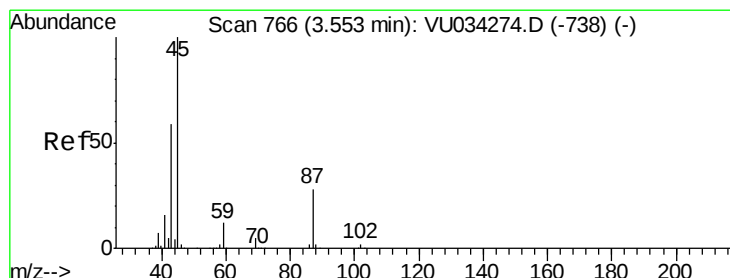
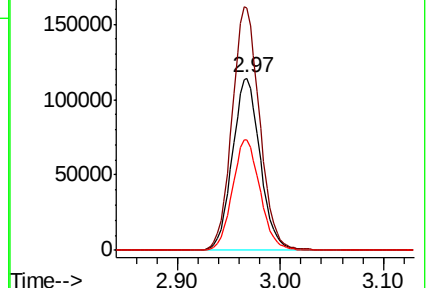
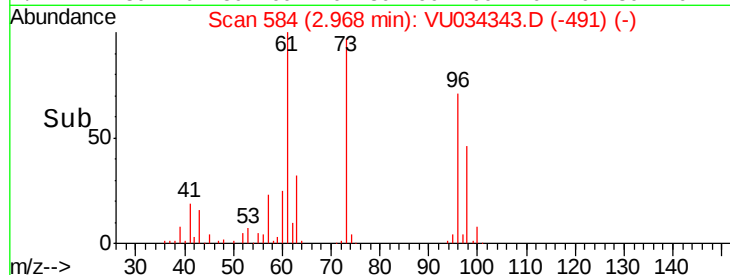
98 64.6 49.8 74.8



Abundance Ion 95.90 (95.60 to 96.60): VU034343.D (-491) (-)

Ion 60.90 (60.60 to 61.60): VU034343.D (-491) (-)

Ion 97.90 (97.60 to 98.60): VU034343.D (-491) (-)



#22

Diisopropyl ether

Concen: 47.581 ug/l

RT: 3.55 min Scan# 766

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion: 45 Resp: 630452

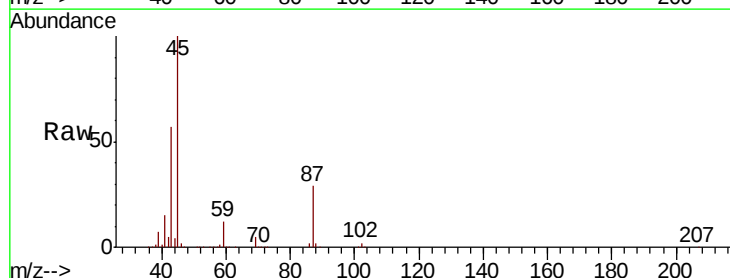
Ion Ratio Lower Upper

45 100

43 56.7 47.5 71.3

87 28.9 22.2 33.4

59 11.7 9.4 14.2

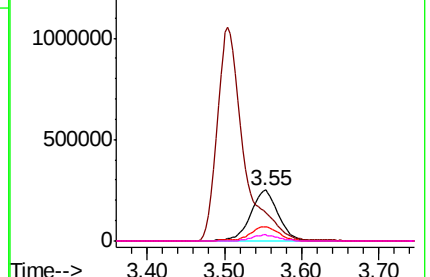
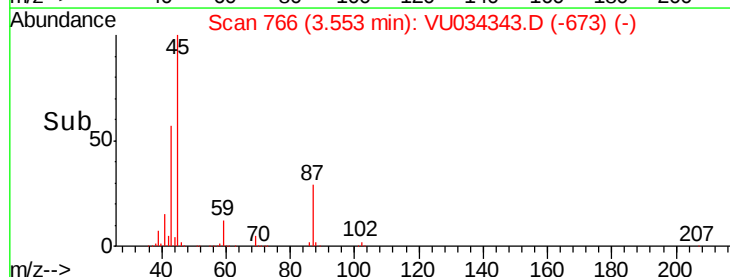


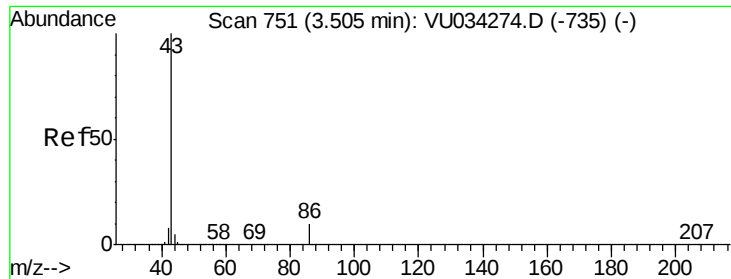
Abundance Ion 45.00 (44.70 to 45.70): VU034343.D (-673) (-)

Ion 43.00 (42.70 to 43.70): VU034343.D (-673) (-)

Ion 87.00 (86.70 to 87.70): VU034343.D (-673) (-)

Ion 59.00 (58.70 to 59.70): VU034343.D (-673) (-)





#23

Vinyl Acetate

Concen: 233.799 ug/l

RT: 3.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

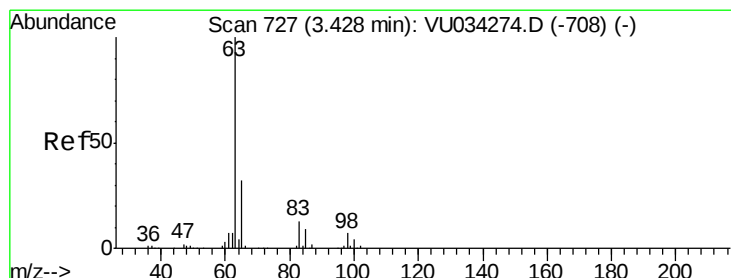
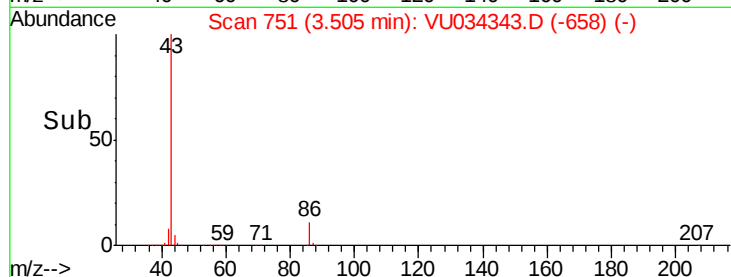
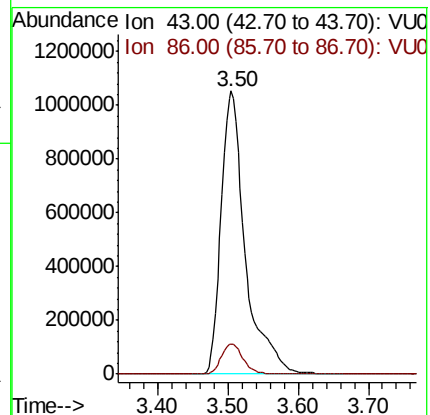
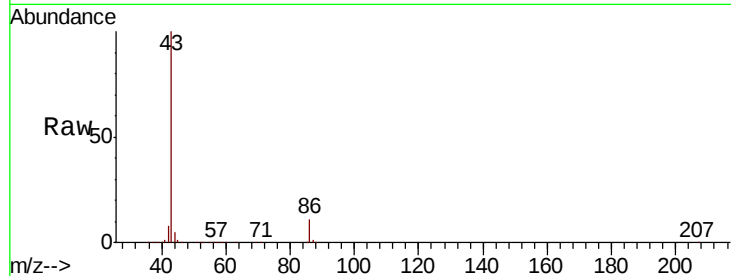
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 43 Resp: 2523410

Ion Ratio Lower Upper

43 100

86 10.8 8.3 12.5



#24

1,1-Dichloroethane

Concen: 44.844 ug/l

RT: 3.43 min Scan# 727

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

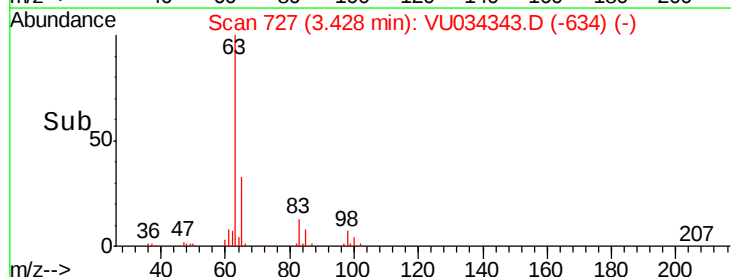
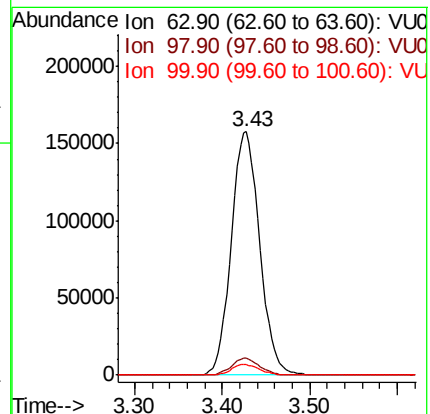
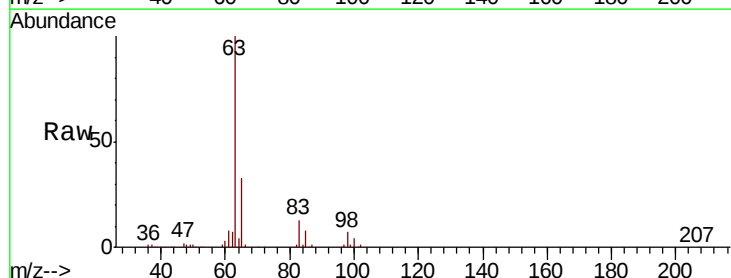
Tgt Ion: 63 Resp: 354845

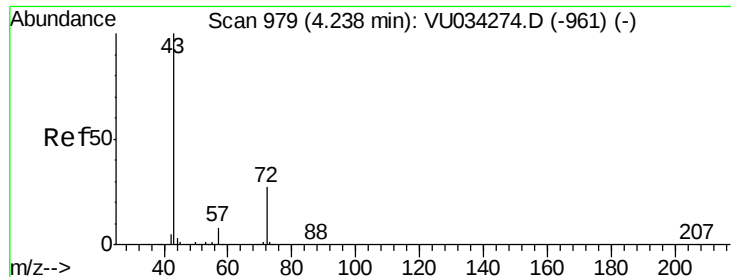
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.4

100 4.2 2.1 6.5

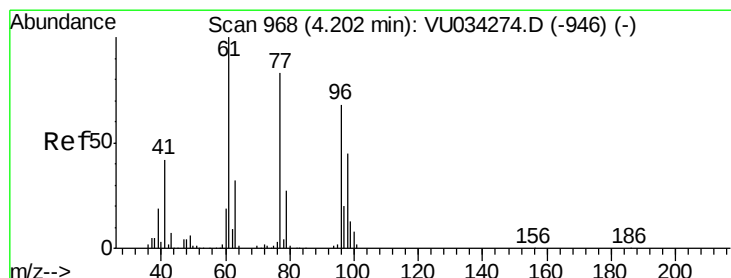
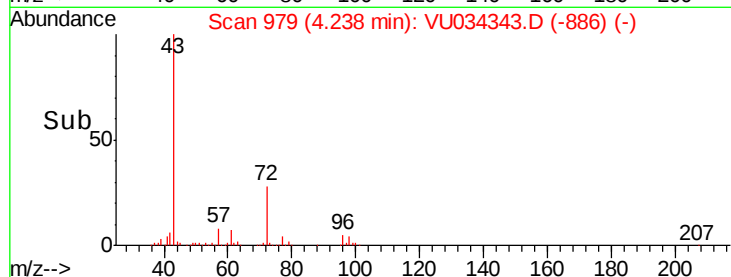
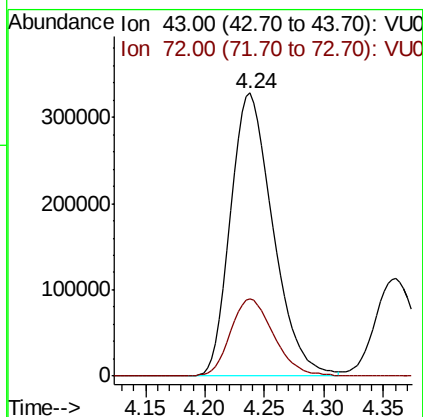
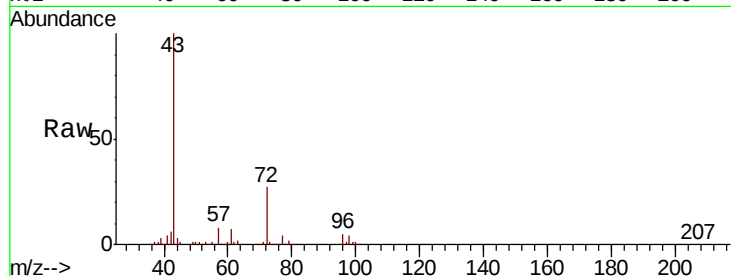




#25
2-Butanone
Concen: 235.498 ug/l
RT: 4.24 min Scan# 979
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

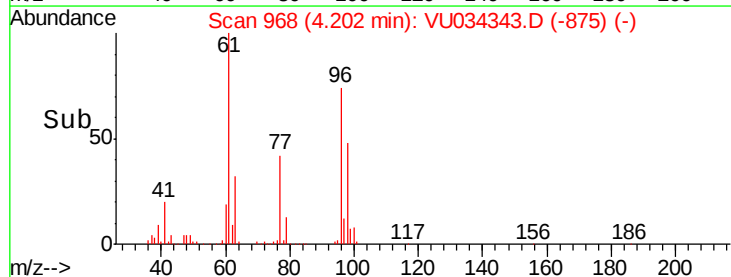
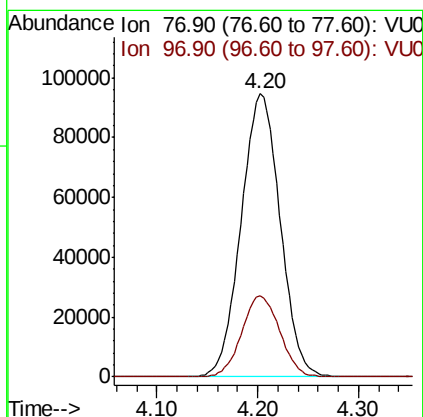
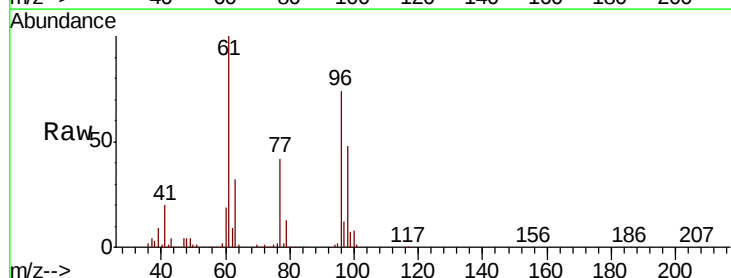
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

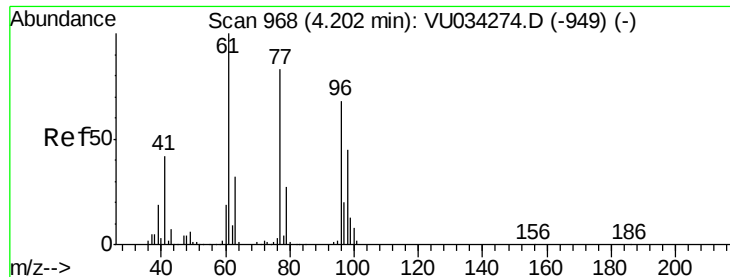
Tgt Ion: 43 Resp: 804005
Ion Ratio Lower Upper
43 100
72 27.3 21.8 32.6



#26
2,2-Dichloropropane
Concen: 39.877 ug/l
RT: 4.20 min Scan# 968
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 77 Resp: 253787
Ion Ratio Lower Upper
77 100
97 27.9 11.8 35.3



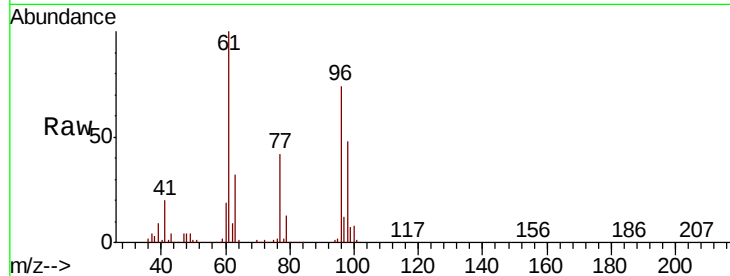


#27

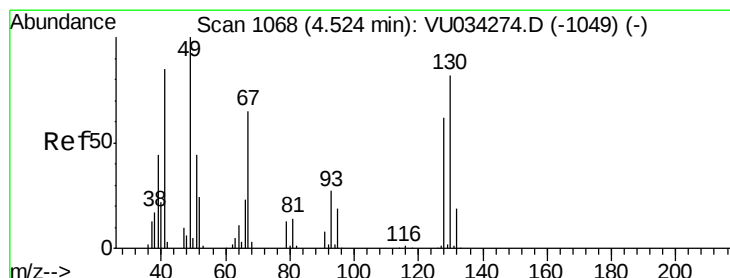
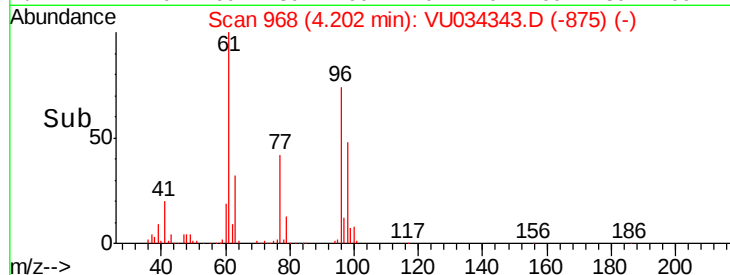
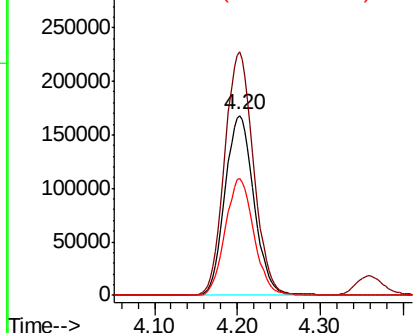
cis-1,2-Dichloroethene
 Concen: 89.646 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 96 Resp: 407763
 Ion Ratio Lower Upper
 96 100
 61 135.1 0.0 297.4
 98 64.4 0.0 130.0



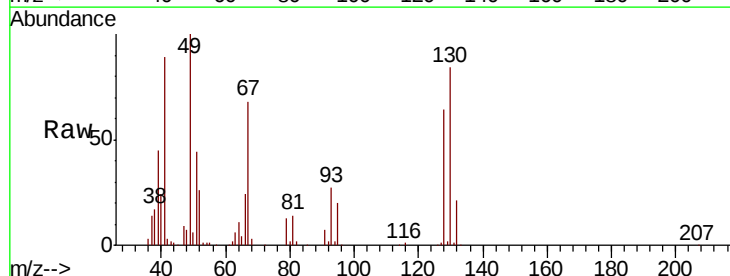
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



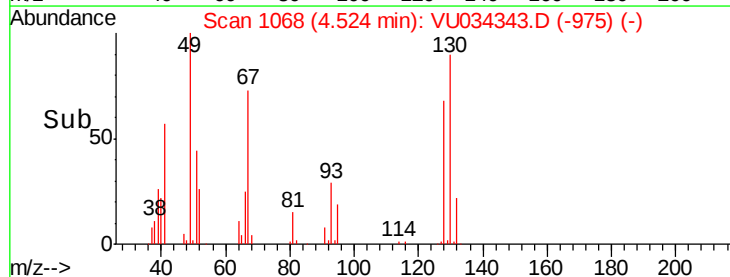
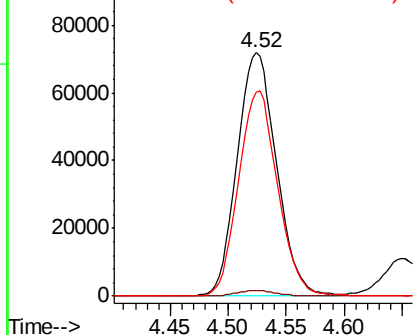
#28

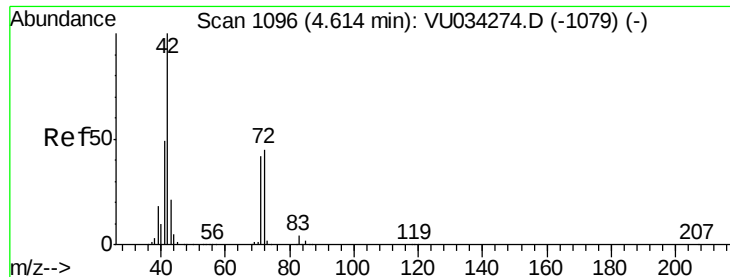
Bromochloromethane
 Concen: 46.745 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion: 49 Resp: 170135
 Ion Ratio Lower Upper
 49 100
 129 2.3 0.0 3.8
 130 83.8 65.2 97.8



Abundance Ion 48.90 (48.60 to 49.60): VU0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 244.731 ug/l

RT: 4.61 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

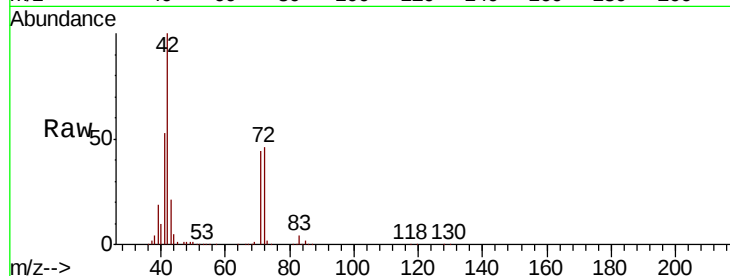
Tgt Ion: 42 Resp: 508425

Ion Ratio Lower Upper

42 100

72 47.0 36.6 54.8

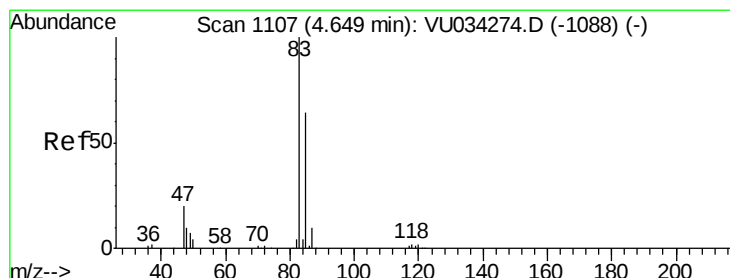
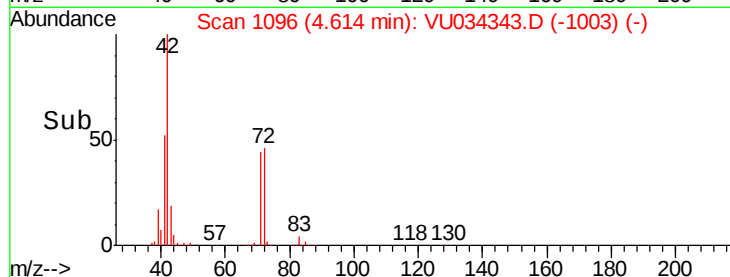
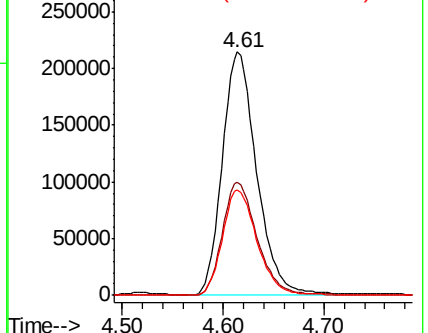
71 43.8 34.3 51.5



Abundance Ion 42.00 (41.70 to 42.70): VU034274.D (-1079) (-)

Ion 72.00 (71.70 to 72.70): VU034274.D (-1079) (-)

Ion 71.00 (70.70 to 71.70): VU034274.D (-1079) (-)



#30

Chloroform

Concen: 45.070 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VU034343.D

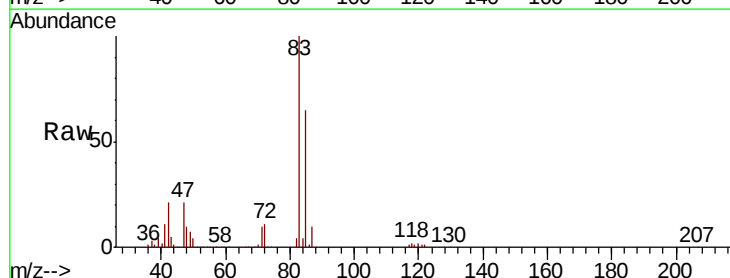
Acq: 06 Sep 2019 20:03

Tgt Ion: 83 Resp: 362507

Ion Ratio Lower Upper

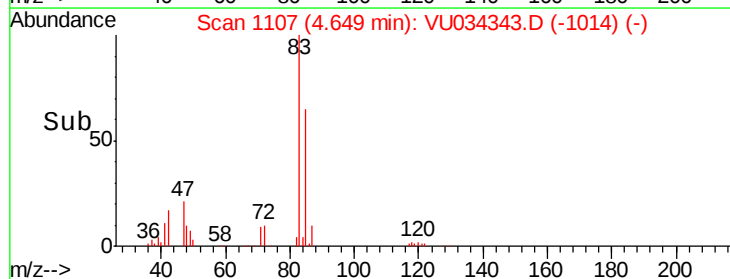
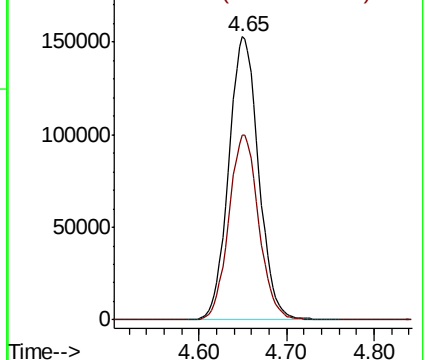
83 100

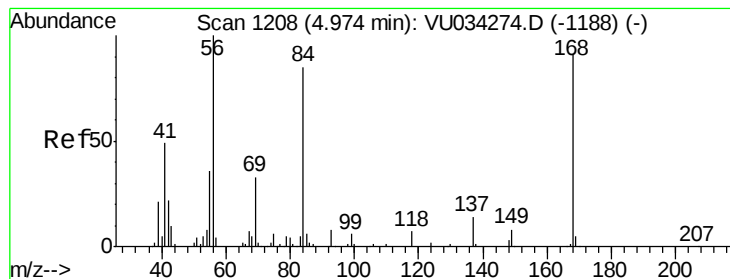
85 65.0 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VU034274.D (-1088) (-)

Ion 84.90 (84.60 to 85.60): VU034274.D (-1088) (-)





#31

Cyclohexane

Concen: 44.839 ug/l

RT: 4.97 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

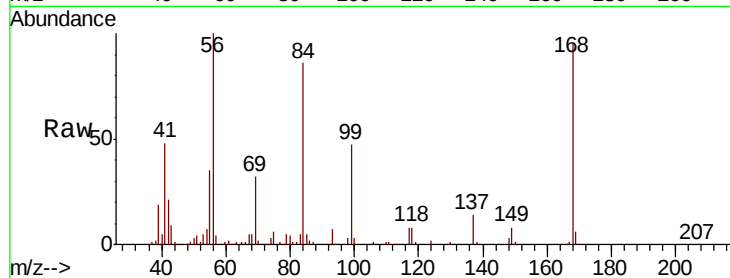
Tgt Ion: 56 Resp: 259570

Ion Ratio Lower Upper

56 100

69 32.2 26.7 40.1

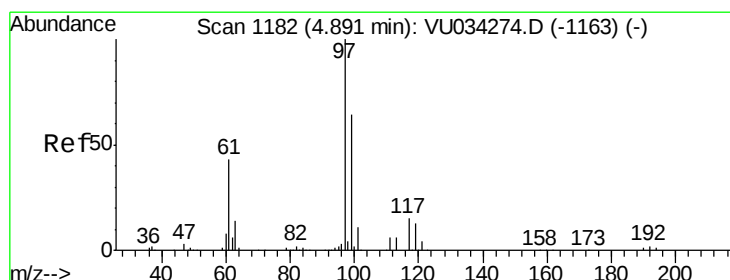
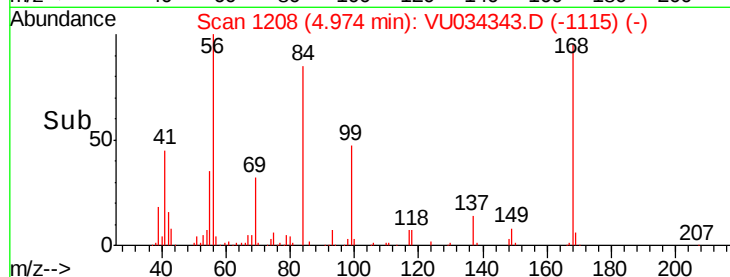
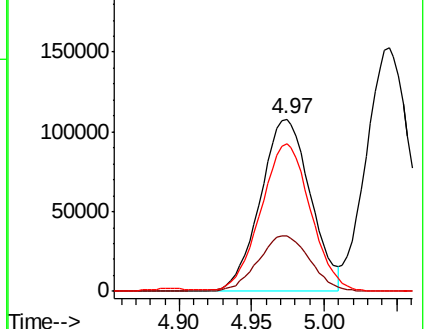
84 85.0 68.2 102.4



Abundance Ion 56.00 (55.70 to 56.70): VU034343.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034343.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034343.D (-1188) (-)



#32

1,1,1-Trichloroethane

Concen: 45.041 ug/l

RT: 4.89 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

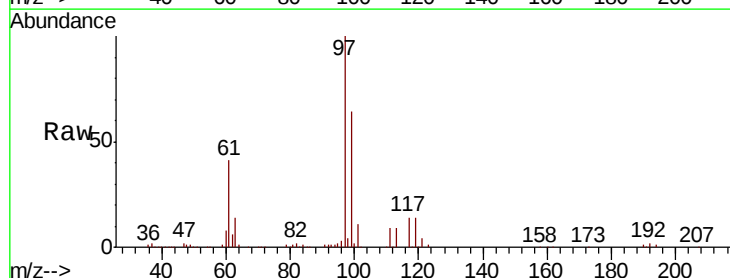
Tgt Ion: 97 Resp: 289644

Ion Ratio Lower Upper

97 100

99 63.9 50.9 76.3

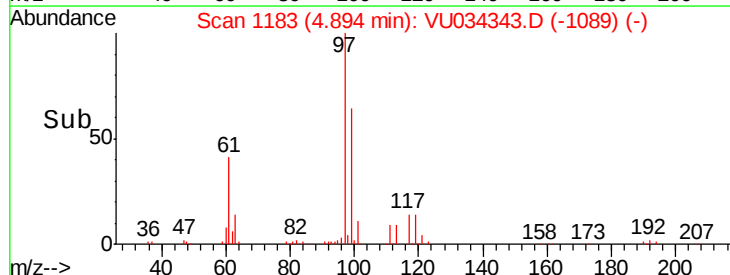
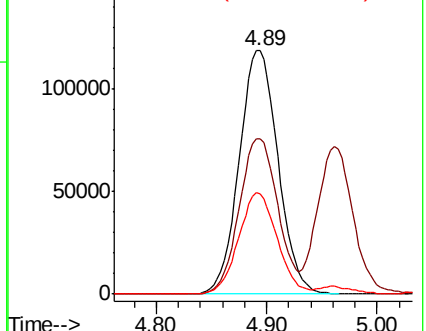
61 41.3 34.7 52.1

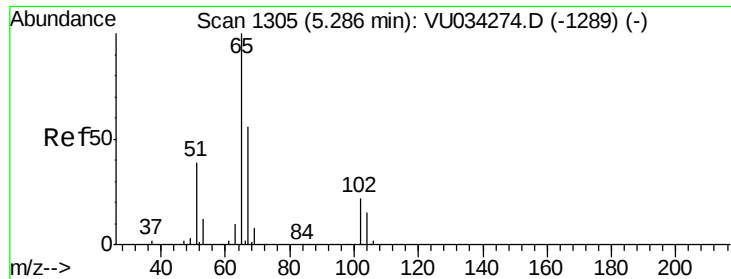


Abundance Ion 96.90 (96.60 to 97.60): VU034343.D (-1089) (-)

Ion 98.90 (98.60 to 99.60): VU034343.D (-1089) (-)

Ion 60.90 (60.60 to 61.60): VU034343.D (-1089) (-)

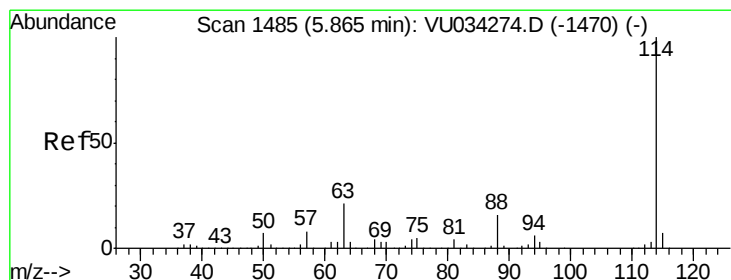
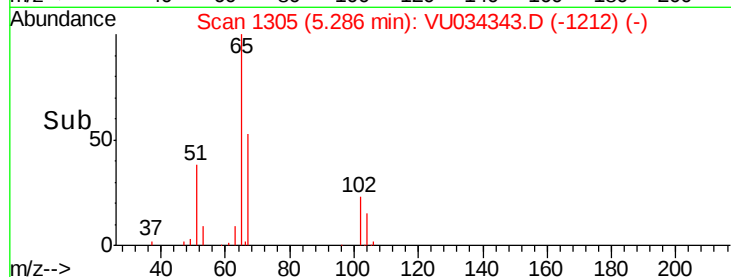
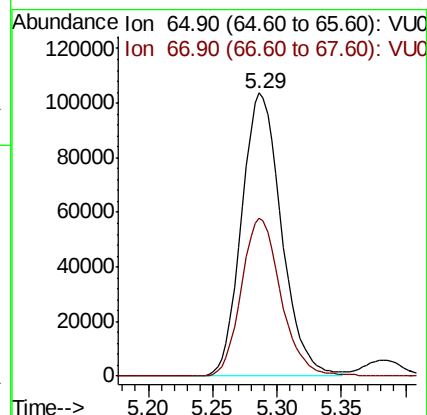
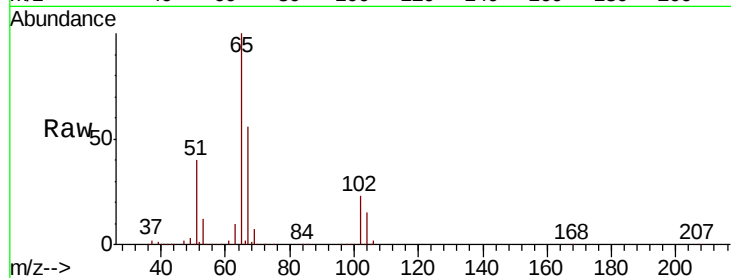




#33
 1,2-Dichloroethane-d4
 Concen: 45.200 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

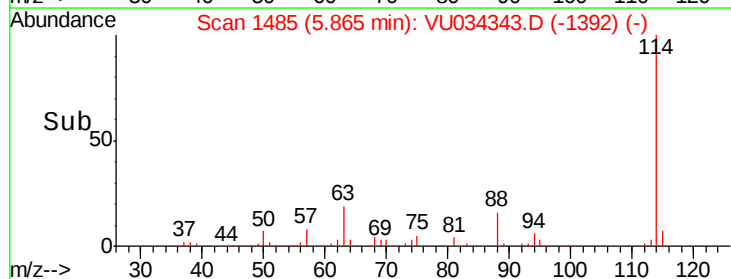
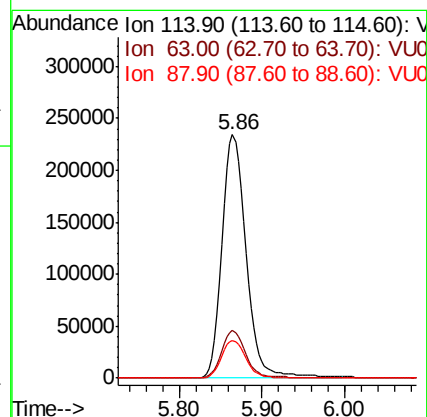
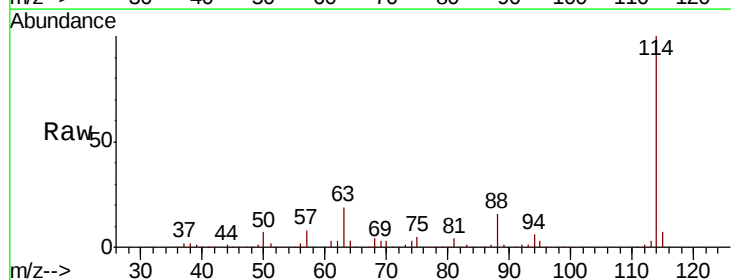
Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

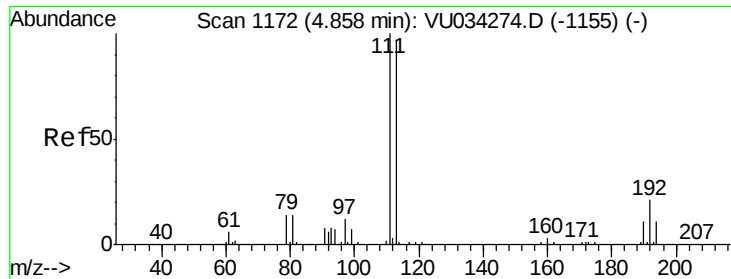
Tgt Ion: 65 Resp: 223390
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion: 114 Resp: 474850
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 42.4
 88 15.6 0.0 32.4

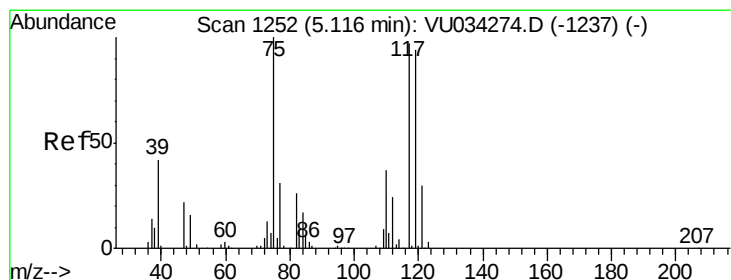
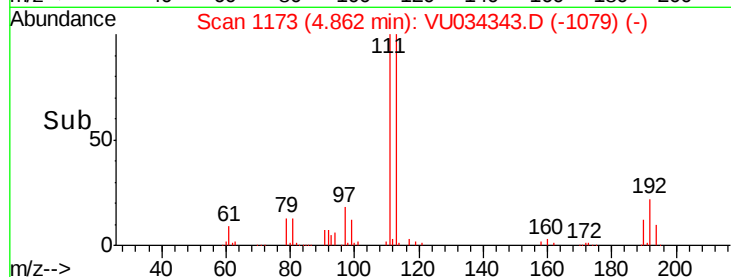
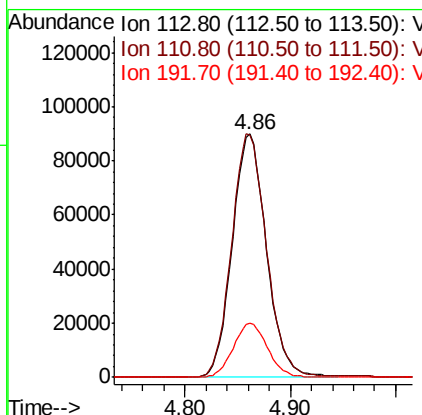
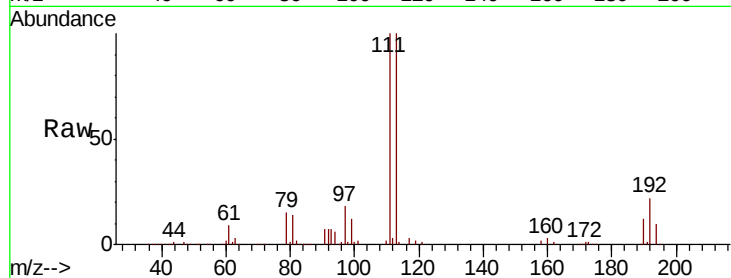




#35
 Dibromofluoromethane
 Concen: 45.810 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

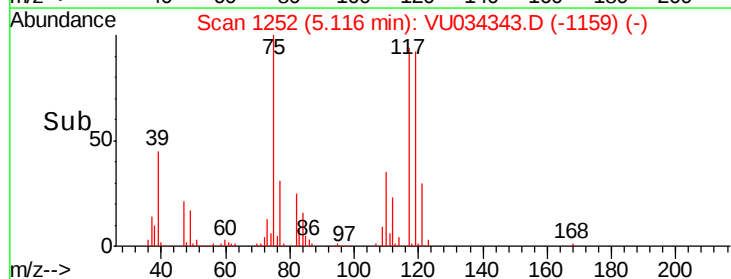
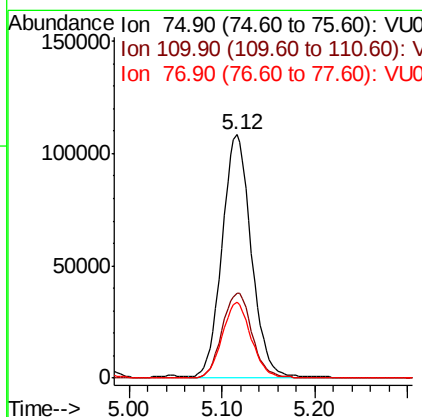
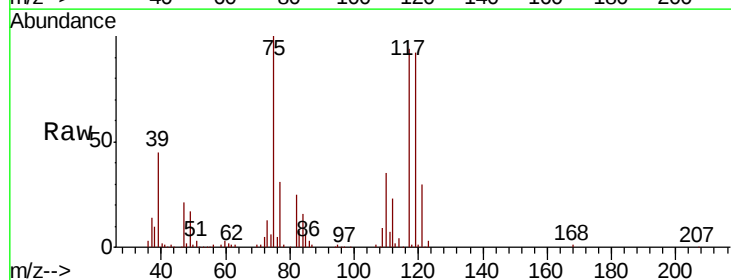
Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

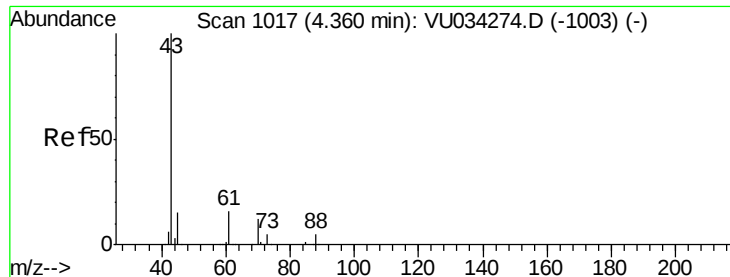
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.5	122.3
192	22.3	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 45.805 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.3	54.9
77	30.8	24.9	37.3

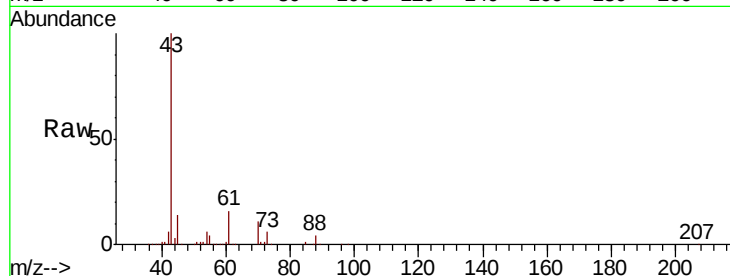




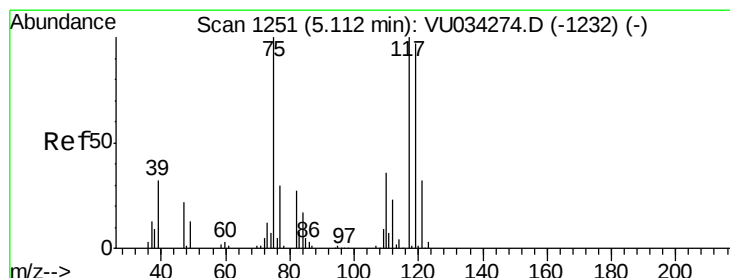
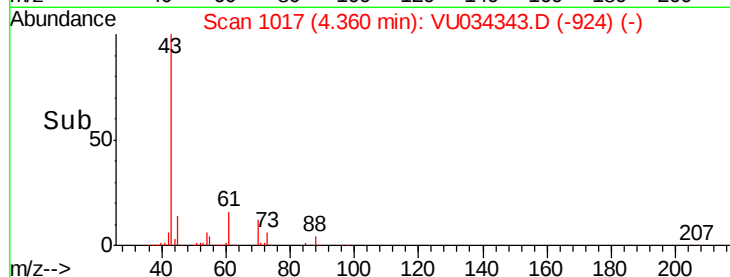
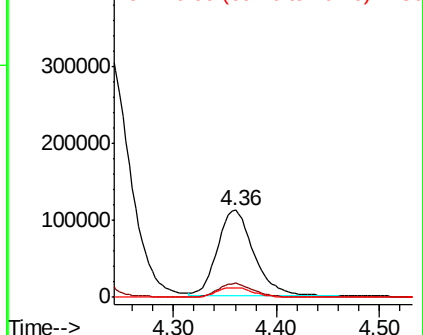
#37
 Ethyl Acetate
 Concen: 45.534 ug/l
 RT: 4.36 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 43 Resp: 277247
 Ion Ratio Lower Upper
 43 100
 61 14.8 12.3 18.5
 70 11.7 9.1 13.7

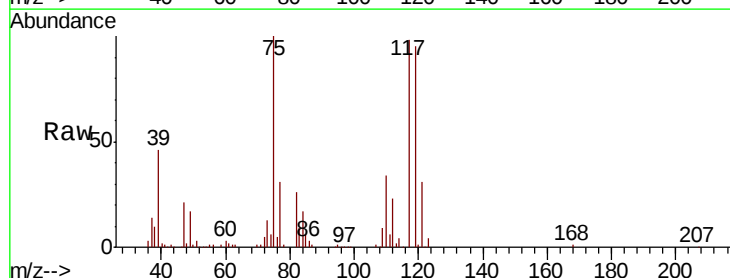


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 70.00 (69.70 to 70.70): VU0

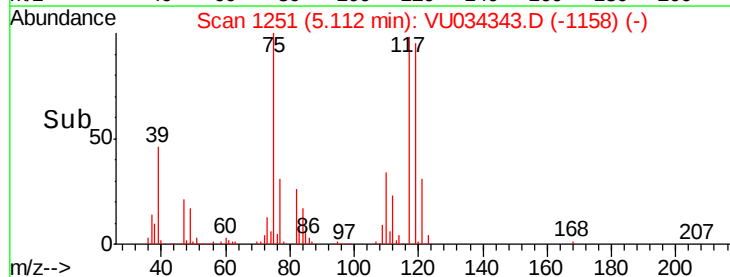
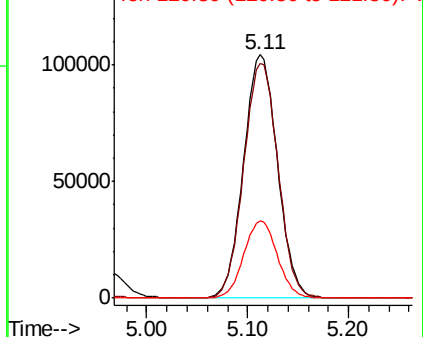


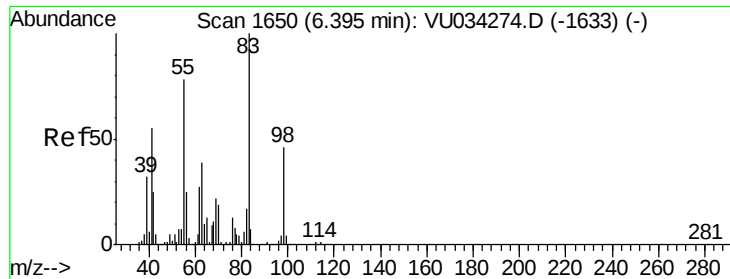
#38
 Carbon Tetrachloride
 Concen: 44.069 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion: 117 Resp: 242317
 Ion Ratio Lower Upper
 117 100
 119 96.7 77.8 116.6
 121 31.7 25.2 37.8



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

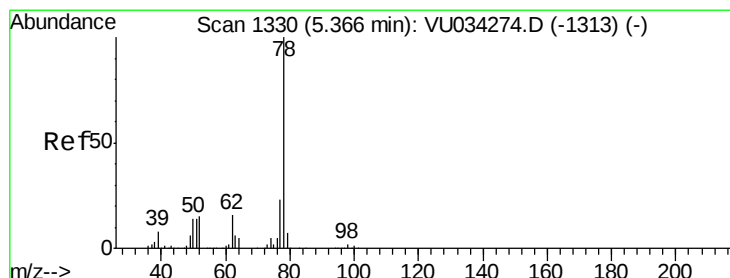
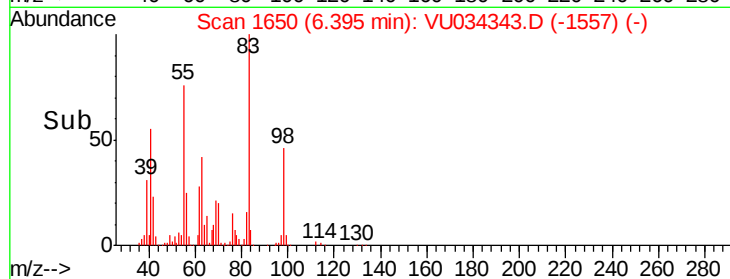
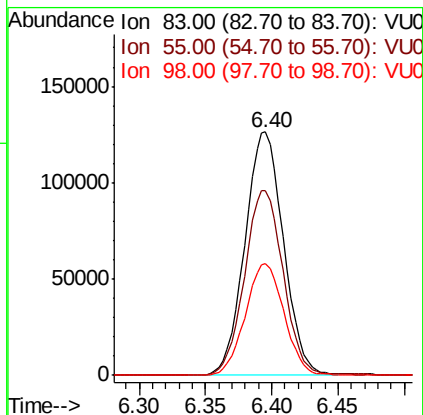
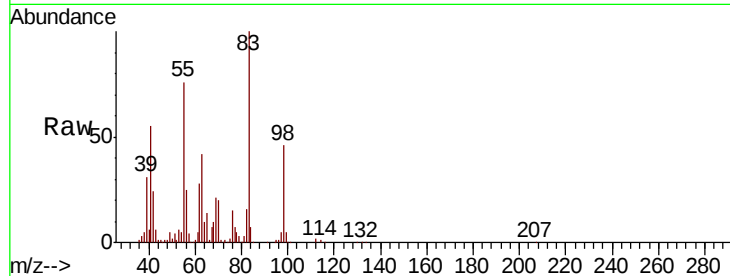




#39
Methylcyclohexane
Concen: 46.273 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

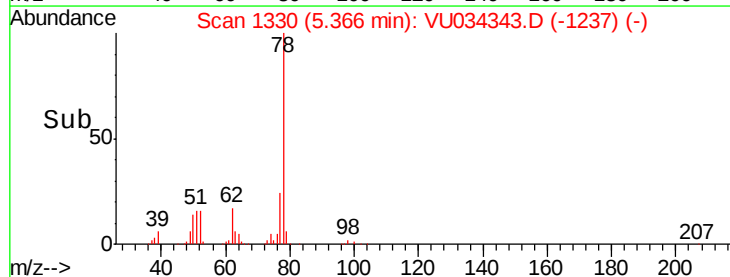
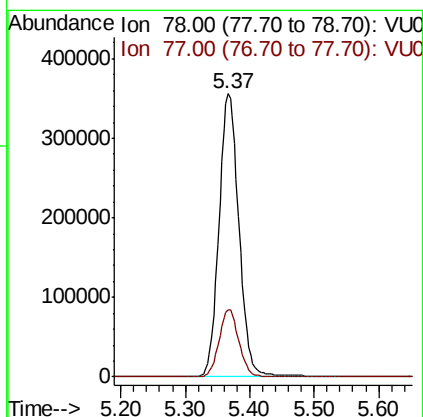
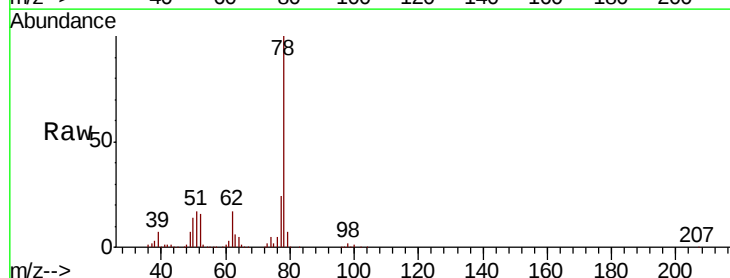
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

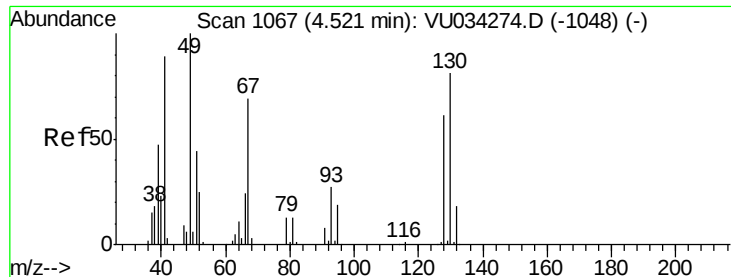
Tgt Ion: 83 Resp: 254736
Ion Ratio Lower Upper
83 100
55 75.7 62.1 93.1
98 46.0 37.0 55.6



#40
Benzene
Concen: 46.357 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 78 Resp: 770315
Ion Ratio Lower Upper
78 100
77 23.7 18.7 28.1

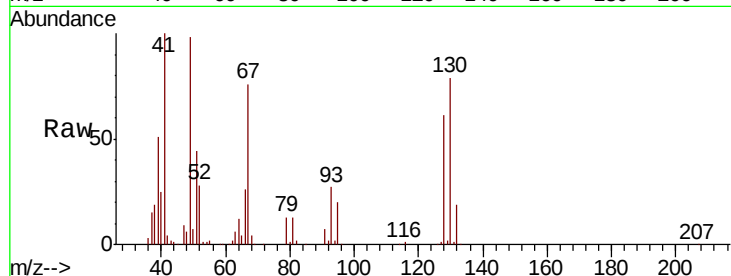




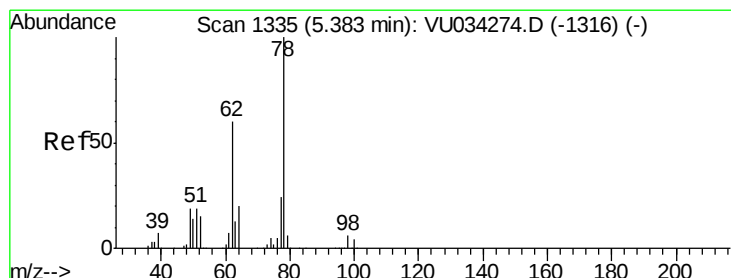
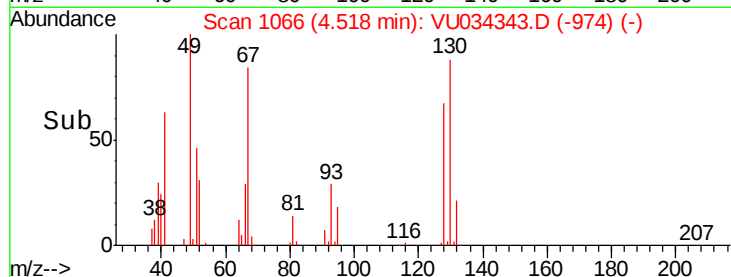
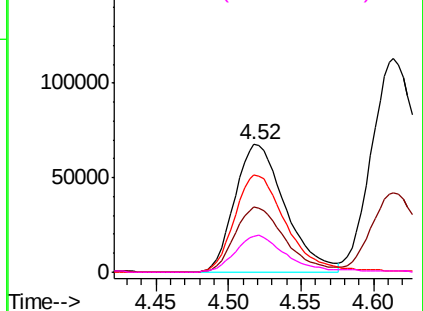
#41
Methacrylonitrile
Concen: 50.608 ug/l
RT: 4.52 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion:	41	Resp:	164132
Ion	Ratio	Lower	Upper
41	100		
39	50.1	41.0	61.4
67	78.1	62.4	93.6
52	27.8	23.6	35.4

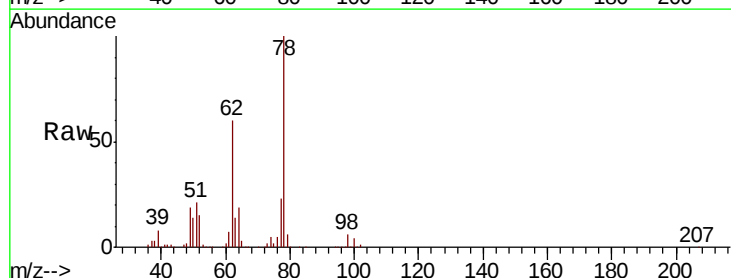


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0
Ion 67.00 (66.70 to 67.70): VU0
Ion 52.00 (51.70 to 52.70): VU0

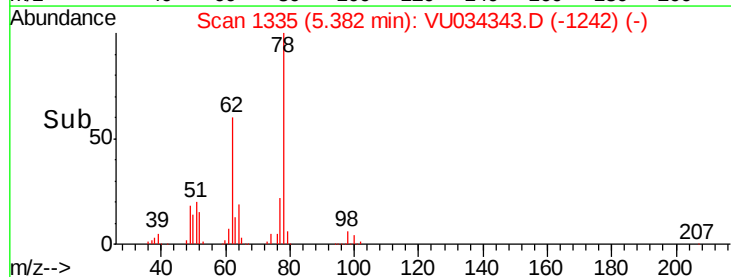
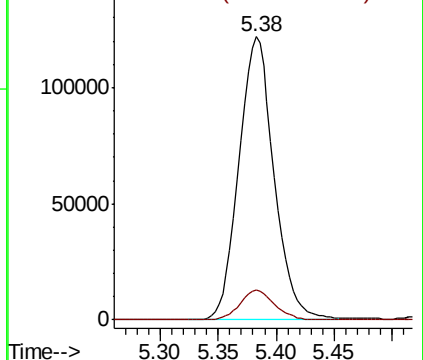


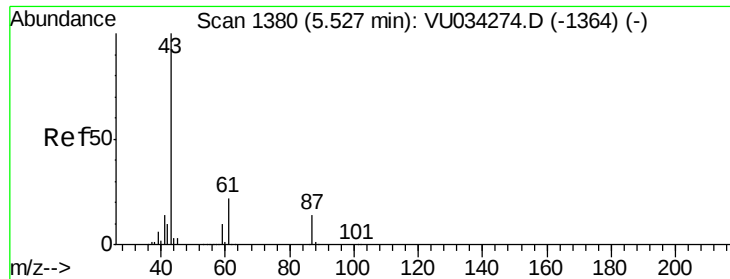
#42
1,2-Dichloroethane
Concen: 44.498 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion:	62	Resp:	256723
Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.0



Abundance Ion 61.90 (61.60 to 62.60): VU0
Ion 97.90 (97.60 to 98.60): VU0

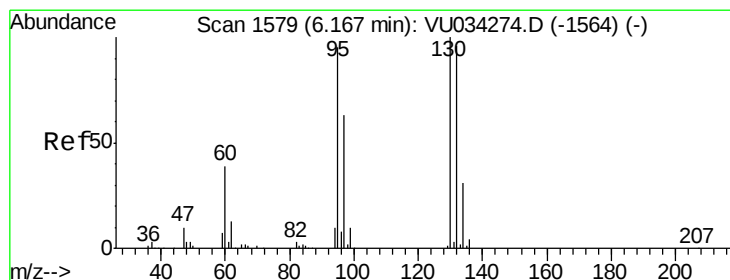
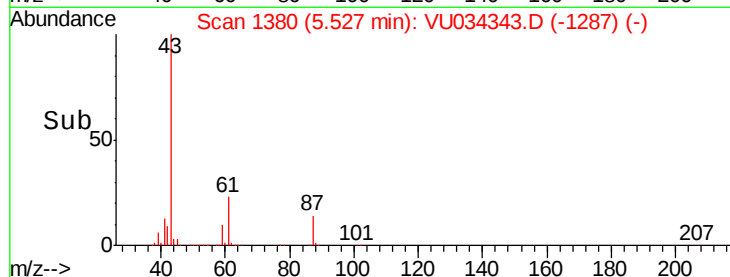
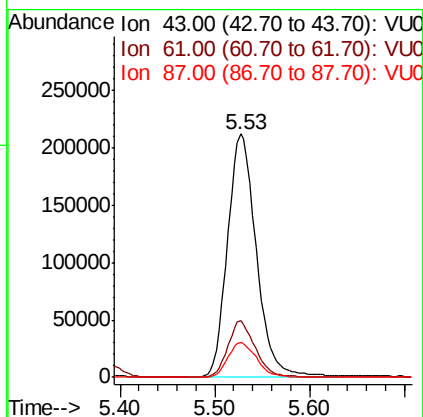
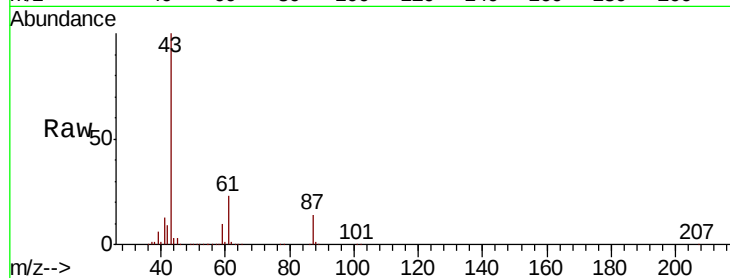




#43
Isopropyl Acetate
Concen: 46.970 ug/l
RT: 5.53 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

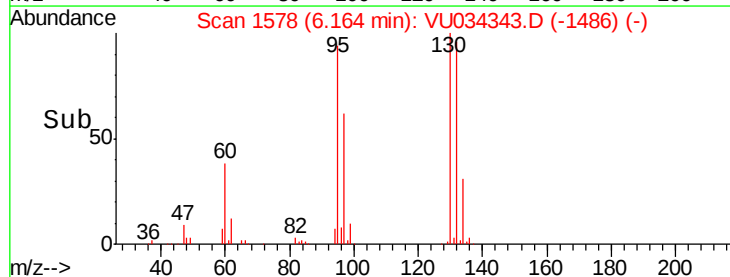
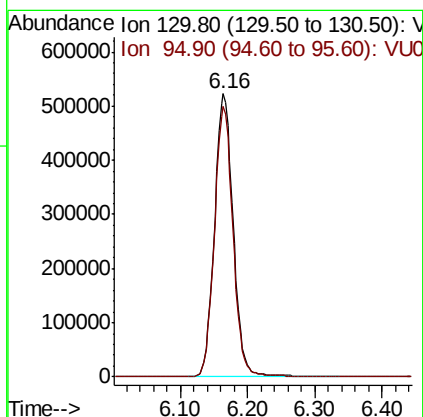
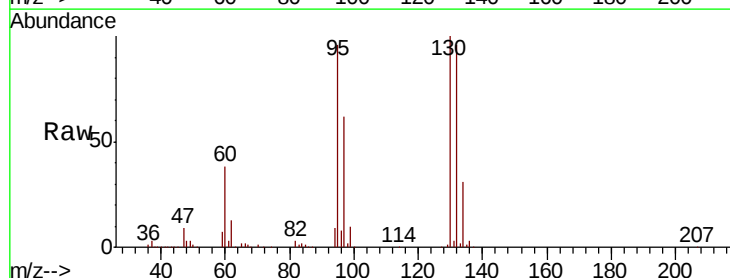
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

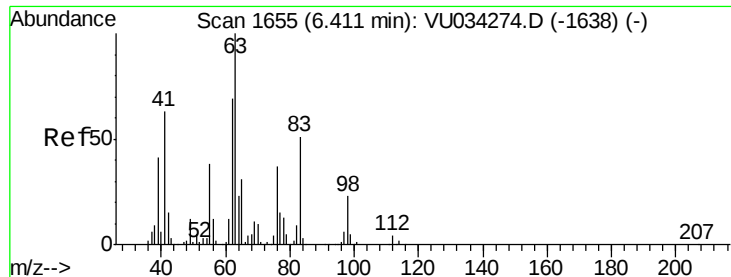
Tgt Ion: 43 Resp: 446141
Ion Ratio Lower Upper
43 100
61 22.3 17.1 25.7
87 14.5 11.1 16.7



#44
Trichloroethene
Concen: 221.166 ug/l
RT: 6.16 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 130 Resp: 1016989
Ion Ratio Lower Upper
130 100
95 95.5 0.0 189.2





#45

1,2-Dichloropropane

Concen: 45.782 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

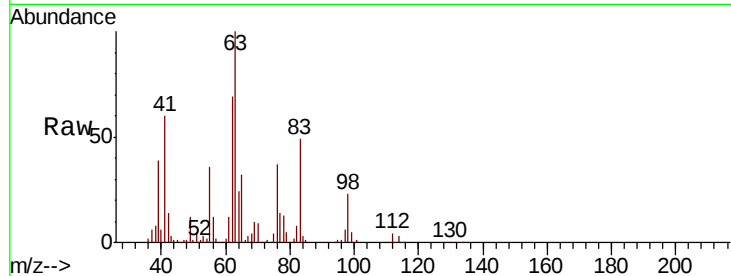
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 63 Resp: 222405

Ion Ratio Lower Upper

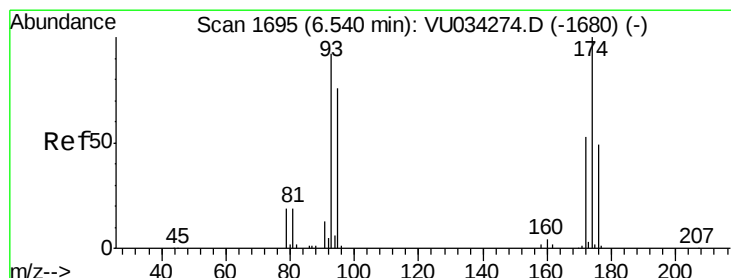
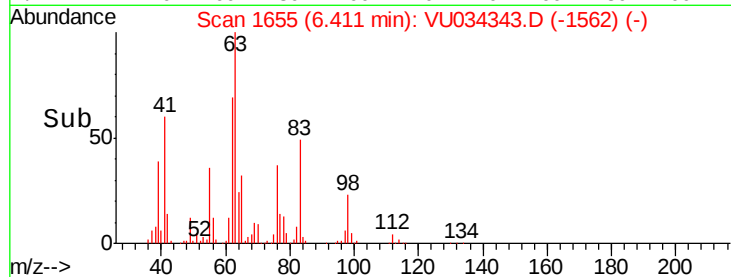
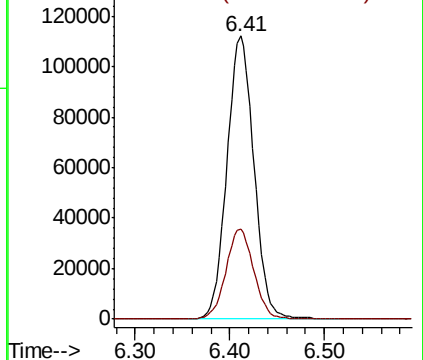
63 100

65 31.7 24.6 37.0



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#46

Dibromomethane

Concen: 45.861 ug/l

RT: 6.54 min Scan# 1694

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

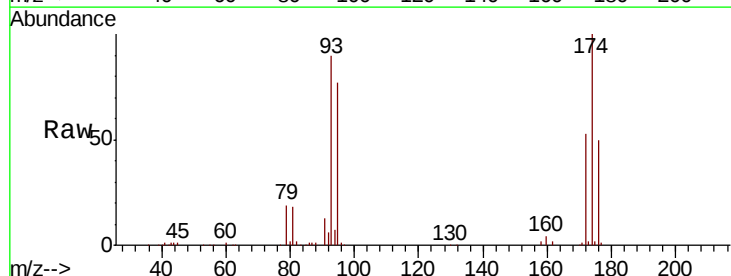
Tgt Ion: 93 Resp: 139846

Ion Ratio Lower Upper

93 100

95 82.5 66.5 99.7

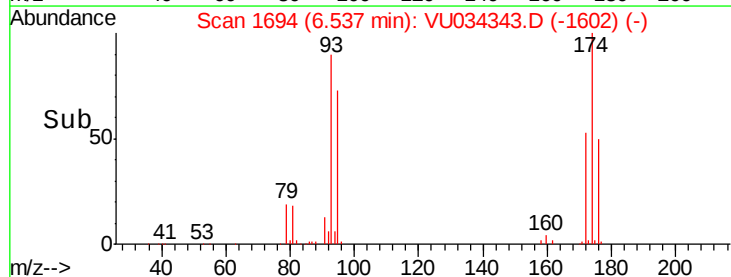
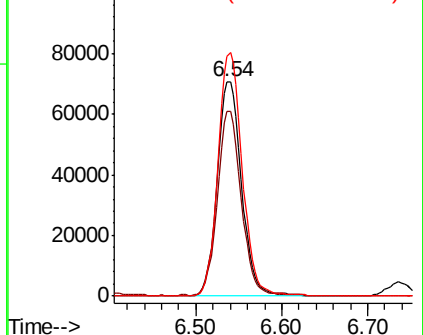
174 112.8 87.8 131.6

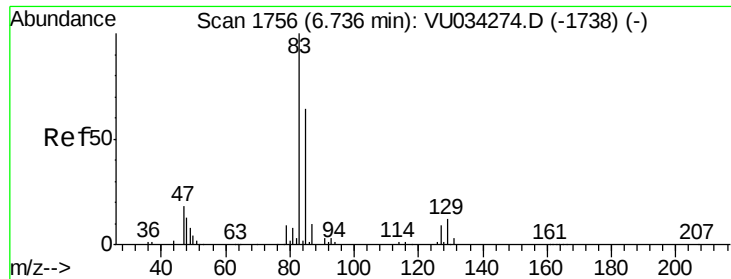


Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 44.914 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

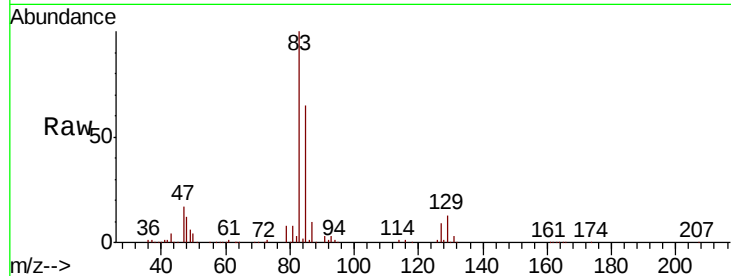
Tgt Ion: 83 Resp: 281917

Ion Ratio Lower Upper

83 100

85 65.0 51.1 76.7

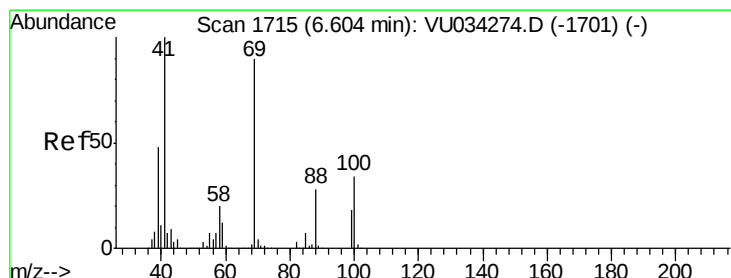
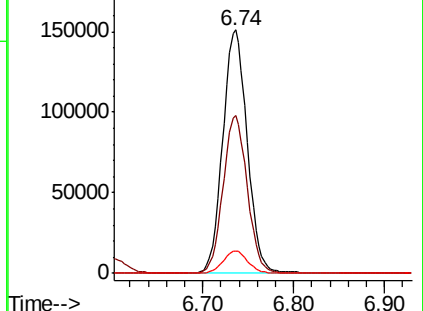
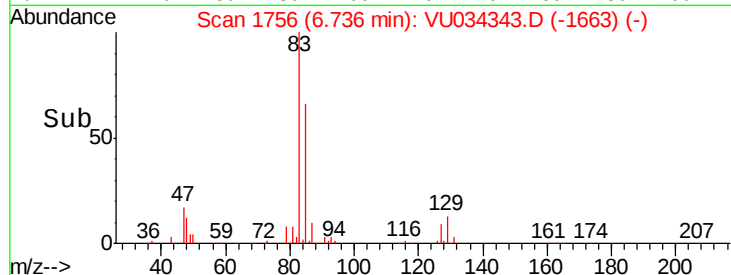
127 9.3 7.2 10.8



Abundance Ion 82.90 (82.60 to 83.60): VU034343.D (-1663) (-)

Ion 84.90 (84.60 to 85.60): VU034343.D (-1663) (-)

Ion 126.80 (126.50 to 127.50): VU034343.D (-1663) (-)



#48

Methyl methacrylate

Concen: 48.020 ug/l

RT: 6.60 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

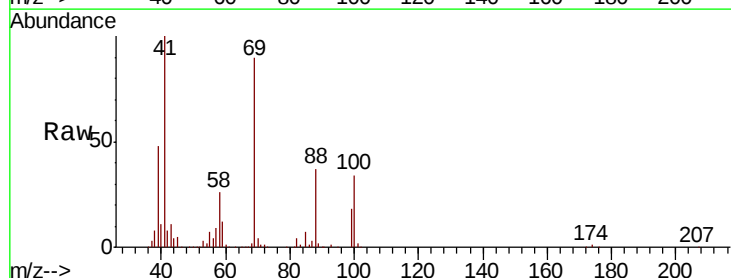
Tgt Ion: 41 Resp: 216635

Ion Ratio Lower Upper

41 100

69 92.5 72.8 109.2

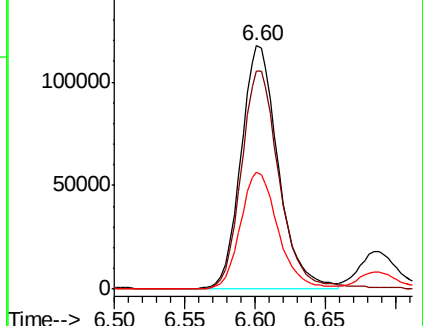
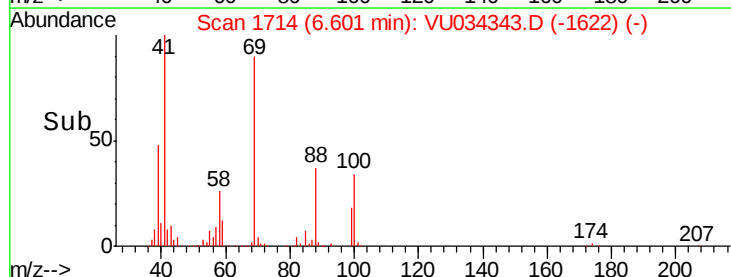
39 48.3 38.6 58.0

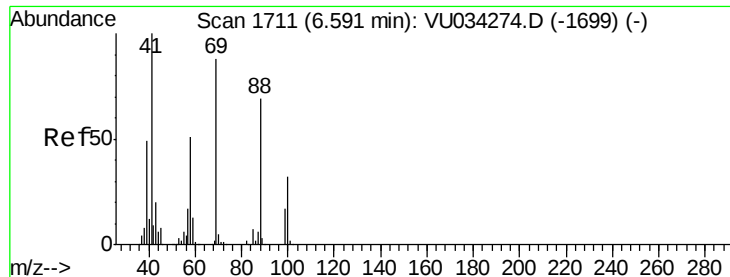


Abundance Ion 41.00 (40.70 to 41.70): VU034343.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034343.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034343.D (-1622) (-)

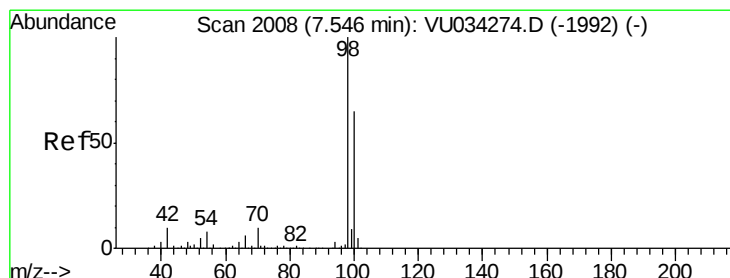
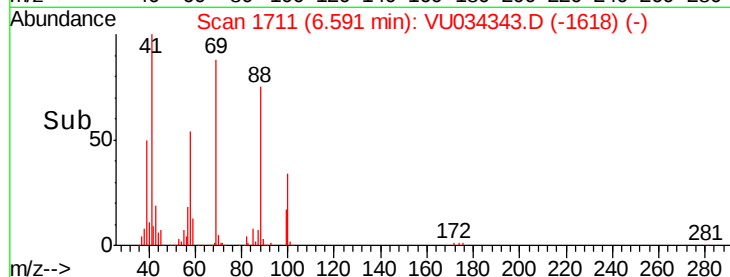
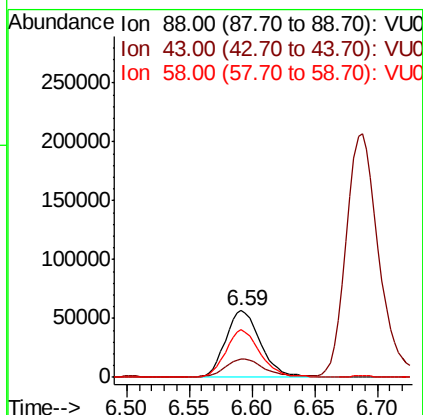
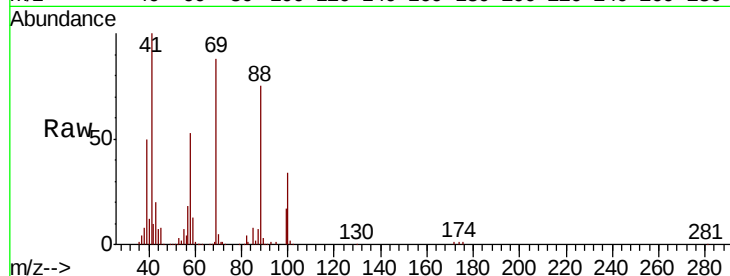




#49
1,4-Dioxane
Concen: 1093.836 ug/l
RT: 6.59 min Scan# 1711
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

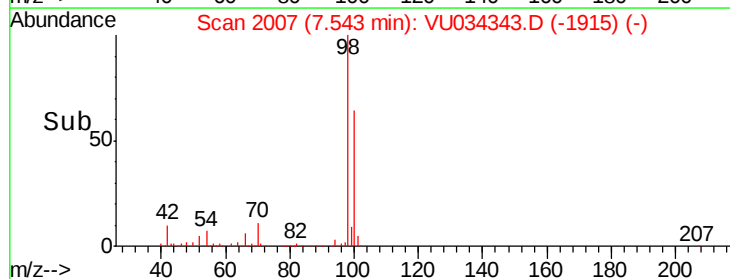
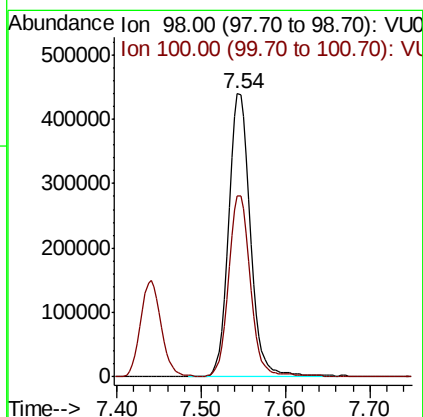
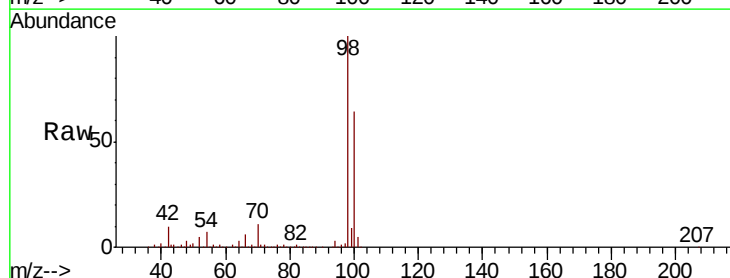
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

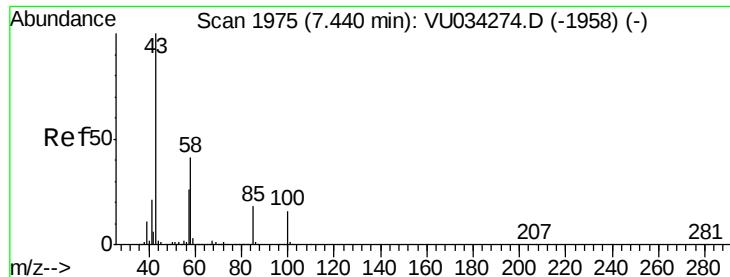
Tgt Ion: 88 Resp: 107755
Ion Ratio Lower Upper
88 100
43 27.6 23.8 35.6
58 71.5 58.4 87.6



#50
Toluene-d8
Concen: 47.350 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 98 Resp: 786030
Ion Ratio Lower Upper
98 100
100 64.5 51.7 77.5

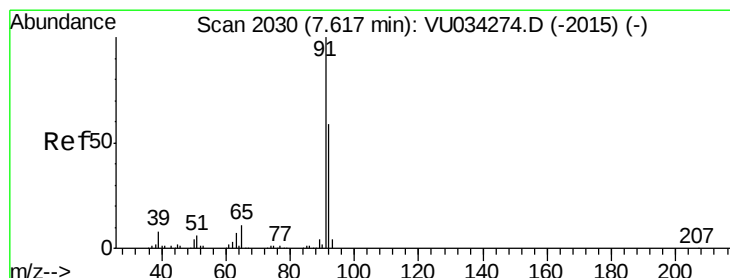
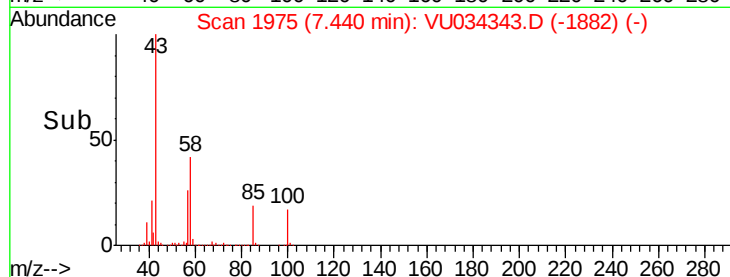
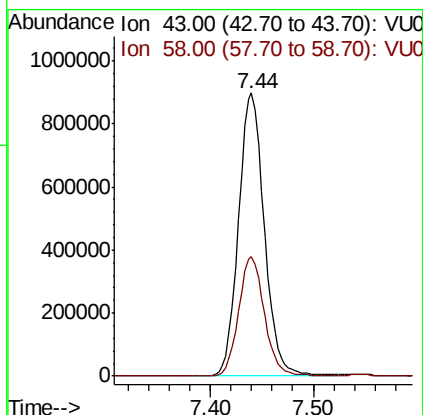
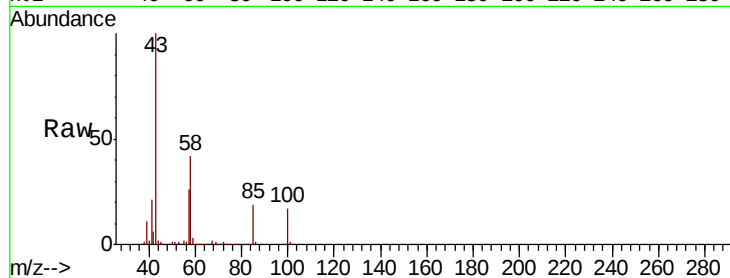




#51
 4-Methyl-2-Pentanone
 Concen: 237.975 ug/l
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

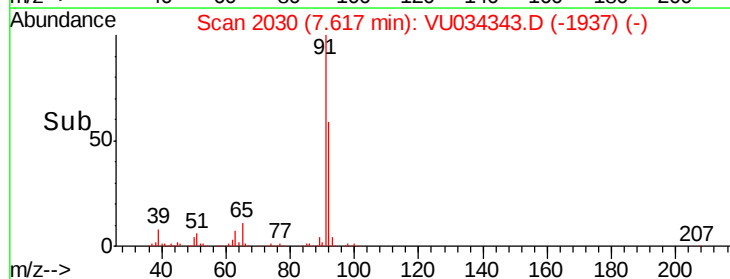
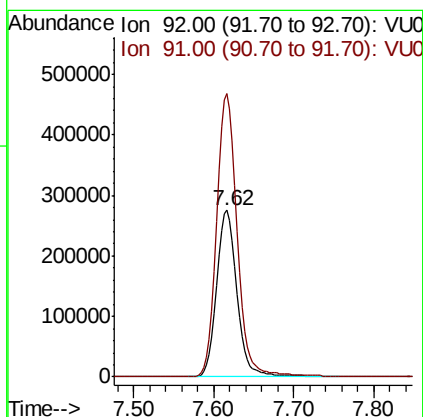
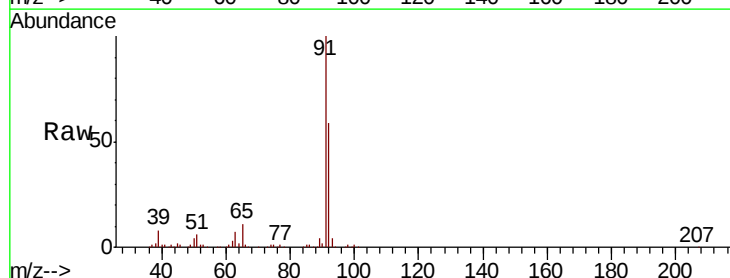
Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

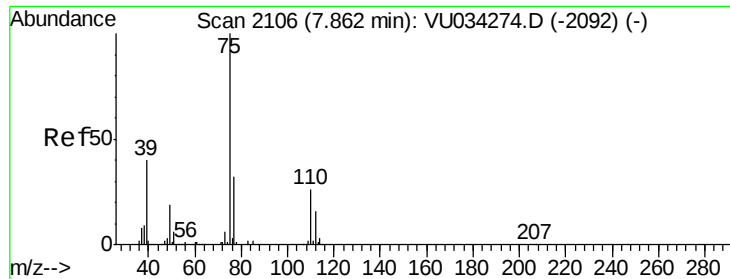
Tgt Ion: 43 Resp: 1564624
 Ion Ratio Lower Upper
 43 100
 58 42.1 33.0 49.4



#52
 Toluene
 Concen: 47.165 ug/l
 RT: 7.62 min Scan# 2030
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion: 92 Resp: 491646
 Ion Ratio Lower Upper
 92 100
 91 171.2 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 46.573 ug/l

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

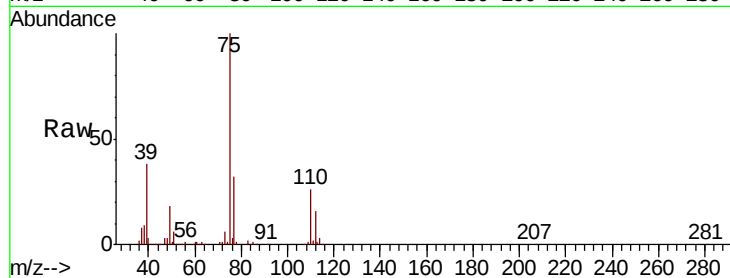
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 75 Resp: 303036

Ion Ratio Lower Upper

75 100

77 31.8 25.7 38.5



Abundance Ion 74.90 (74.60 to 75.60): VU034343.D (-2092) (-)

Ion 76.90 (76.60 to 77.60): VU034343.D (-2092) (-)

7.86

200000

150000

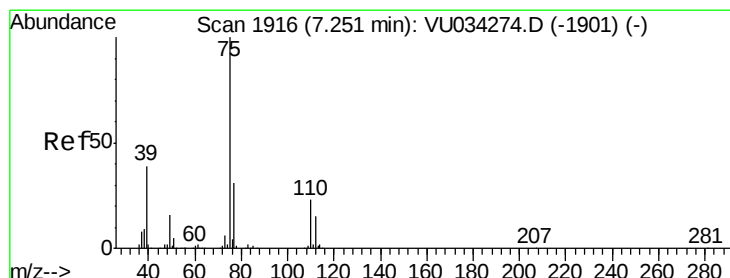
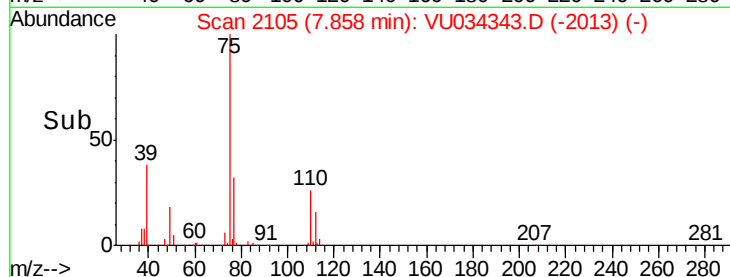
100000

50000

0

7.80 7.90 8.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 46.247 ug/l

RT: 7.25 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

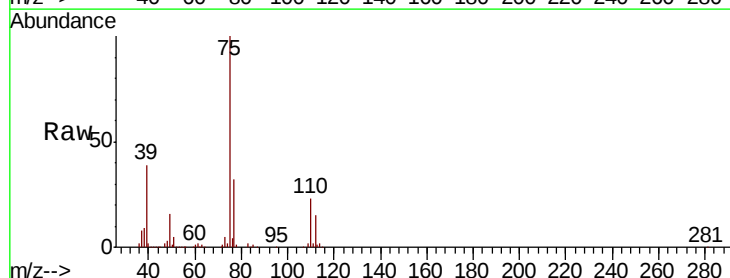
Tgt Ion: 75 Resp: 330258

Ion Ratio Lower Upper

75 100

77 31.7 25.1 37.7

39 39.2 31.2 46.8



Abundance Ion 74.90 (74.60 to 75.60): VU034343.D (-1823) (-)

Ion 76.90 (76.60 to 77.60): VU034343.D (-1823) (-)

Ion 39.00 (38.70 to 39.70): VU034343.D (-1823) (-)

7.25

250000

200000

150000

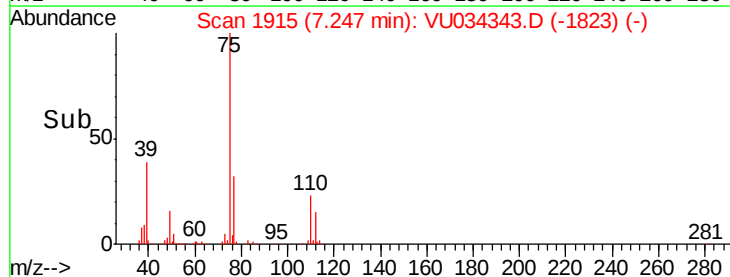
100000

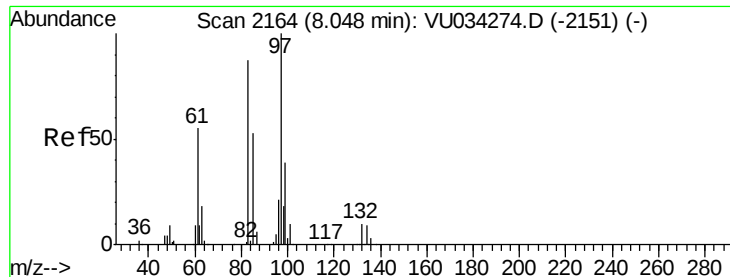
50000

0

7.20 7.30 7.40

Time-->





#55

1,1,2-Trichloroethane

Concen: 45.717 ug/l

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 97 Resp: 216391

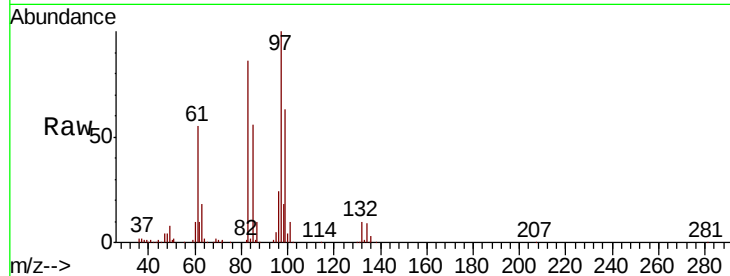
Ion Ratio Lower Upper

97 100

83 86.2 69.0 103.6

85 55.8 44.2 66.2

99 62.5 49.4 74.0

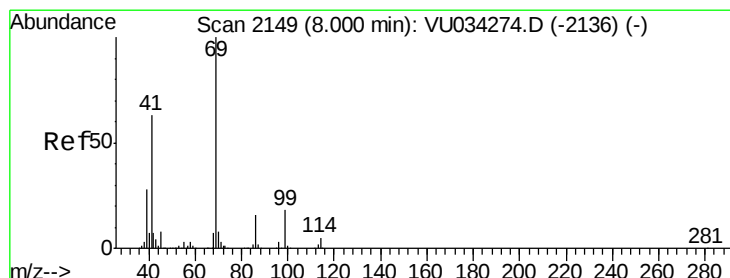
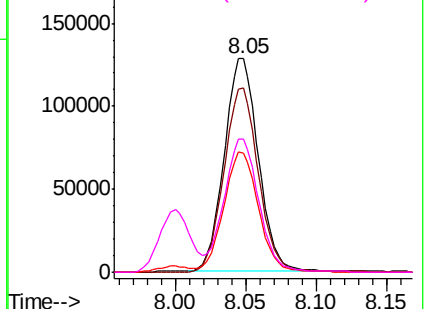
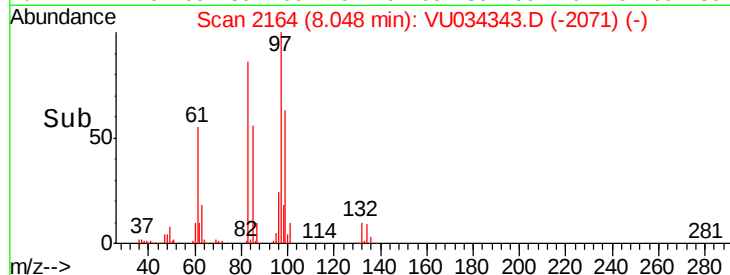


Abundance Ion 96.90 (96.60 to 97.60): VU034343.D (-2071) (-)

Ion 82.90 (82.60 to 83.60): VU034343.D (-2071) (-)

Ion 84.90 (84.60 to 85.60): VU034343.D (-2071) (-)

Ion 98.90 (98.60 to 99.60): VU034343.D (-2071) (-)



#56

Ethyl methacrylate

Concen: 45.968 ug/l

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

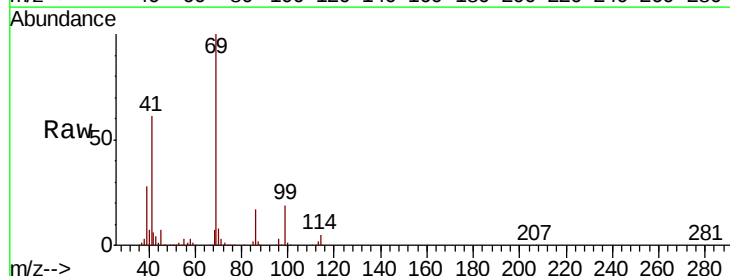
Tgt Ion: 69 Resp: 328668

Ion Ratio Lower Upper

69 100

41 61.9 49.5 74.3

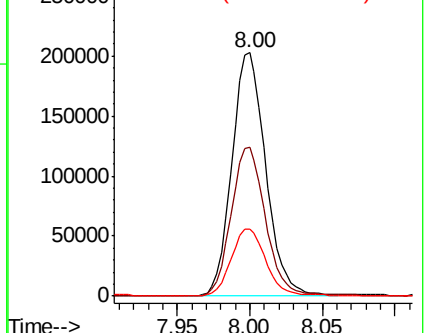
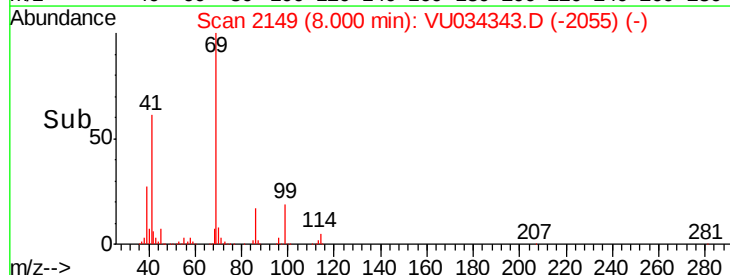
39 28.1 22.5 33.7

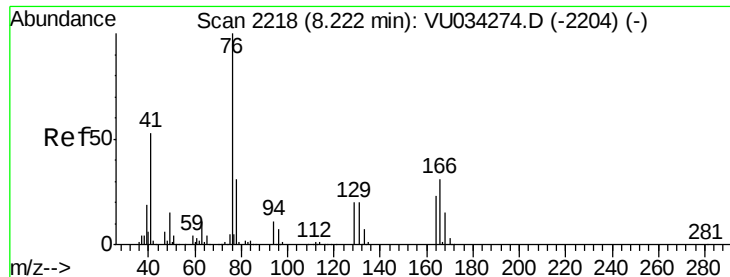


Abundance Ion 69.00 (68.70 to 69.70): VU034343.D (-2055) (-)

Ion 41.00 (40.70 to 41.70): VU034343.D (-2055) (-)

Ion 39.00 (38.70 to 39.70): VU034343.D (-2055) (-)





#57

1,3-Dichloropropane

Concen: 46.162 ug/l

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

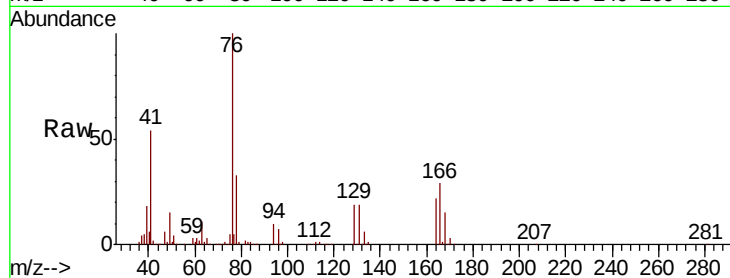
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 76 Resp: 355794

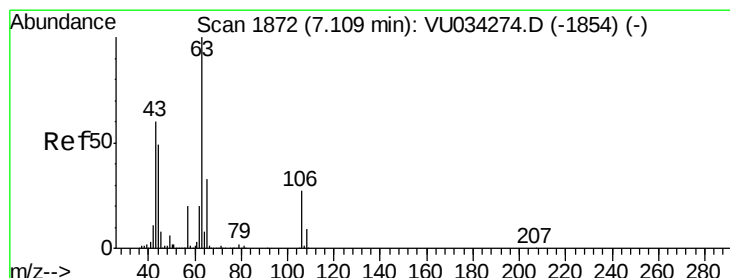
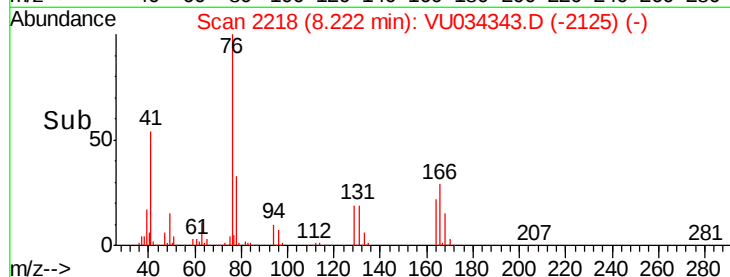
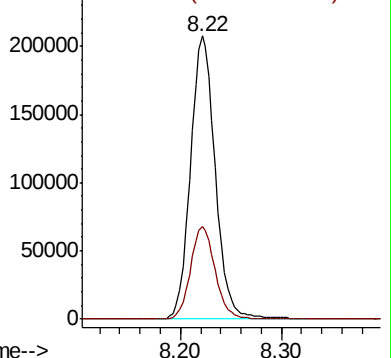
Ion Ratio Lower Upper

76 100

78 32.5 25.4 38.2



Abundance Ion 75.90 (75.60 to 76.60): VU034343.D (-2125) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 16.983 ug/l

RT: 7.08 min Scan# 1864

Delta R.T. -0.03 min

Lab File: VU034343.D

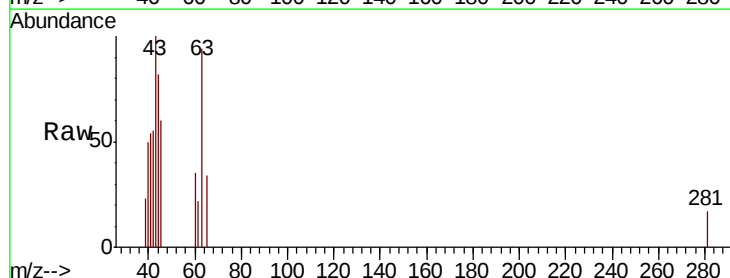
Acq: 06 Sep 2019 20:03

Tgt Ion: 63 Resp: 958

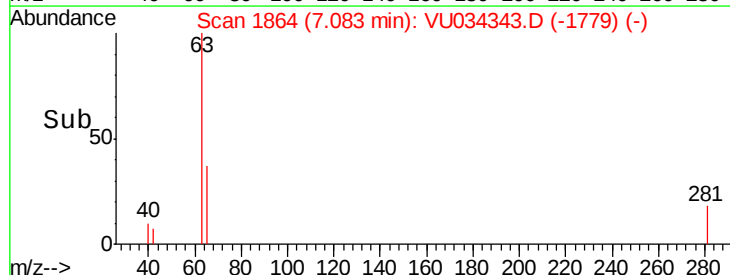
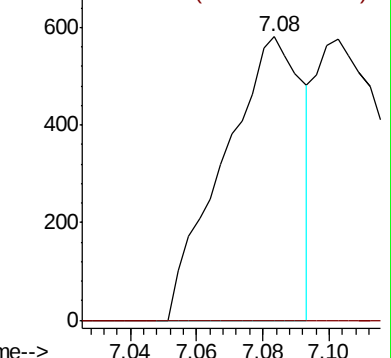
Ion Ratio Lower Upper

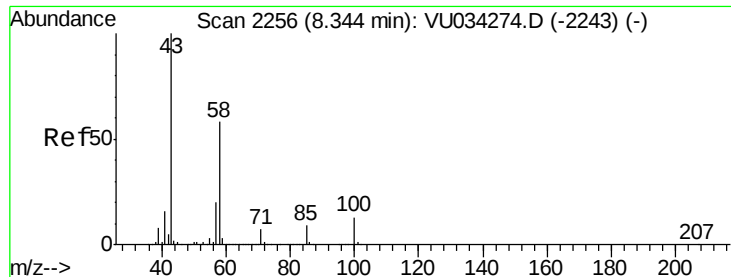
63 100

106 0.0 21.6 32.4#



Abundance Ion 62.90 (62.60 to 63.60): VU034343.D (-1779) (-)

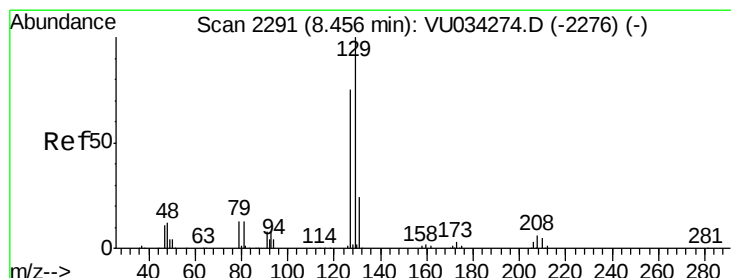
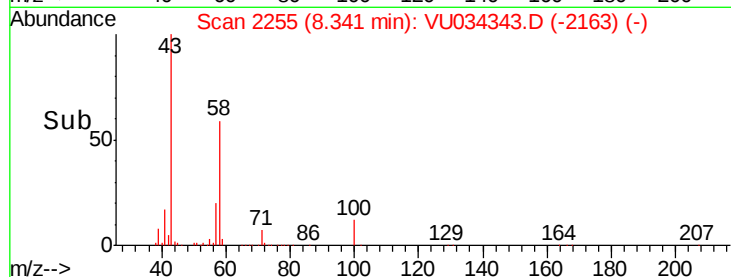
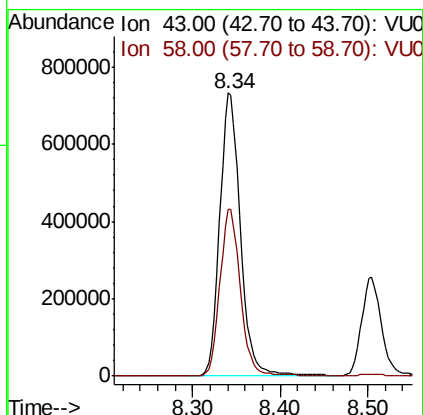
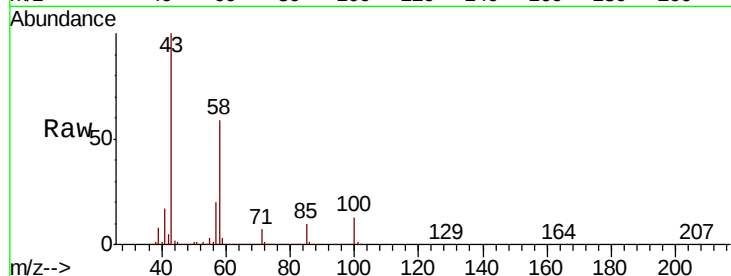




#59
2-Hexanone
Concen: 243.902 ug/l
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

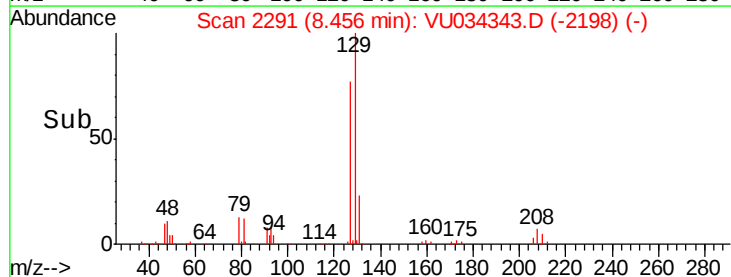
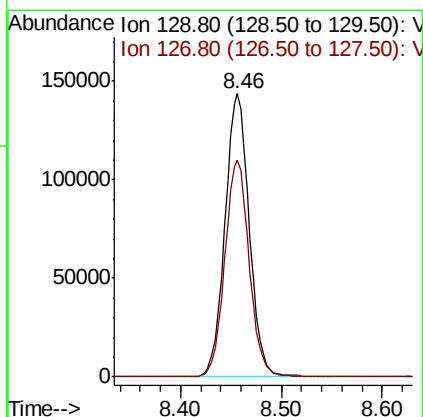
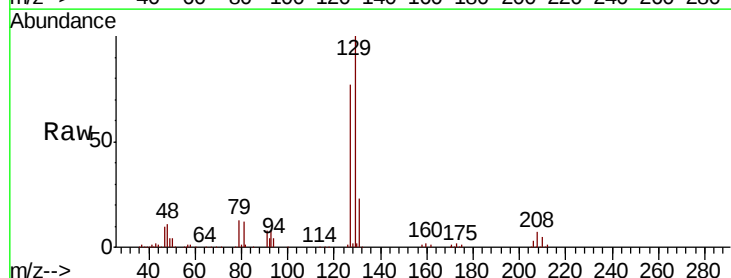
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

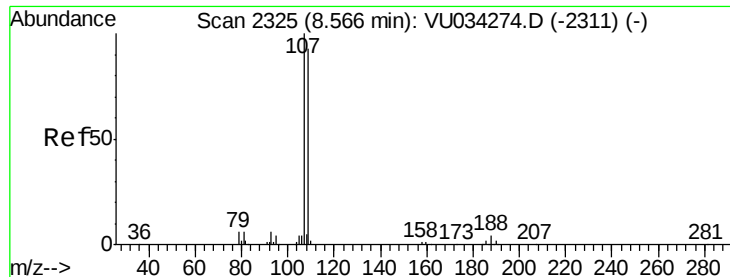
Tgt Ion: 43 Resp: 1197969
Ion Ratio Lower Upper
43 100
58 58.6 28.8 86.5



#60
Dibromochloromethane
Concen: 47.577 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 129 Resp: 241545
Ion Ratio Lower Upper
129 100
127 76.7 37.9 113.7

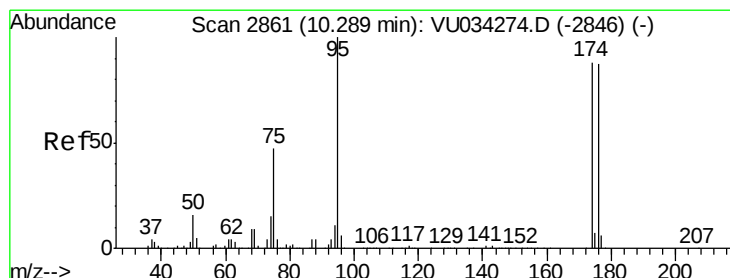
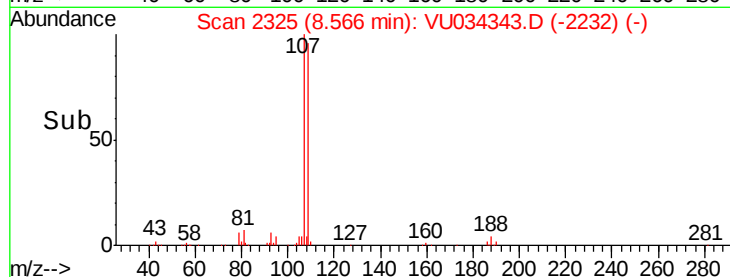
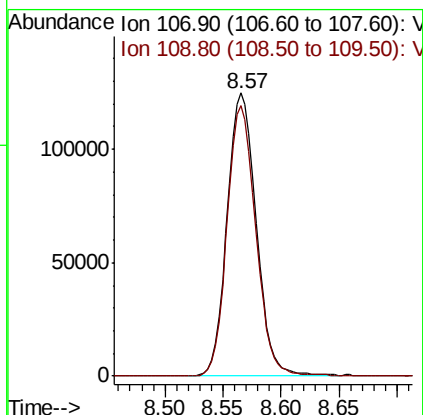
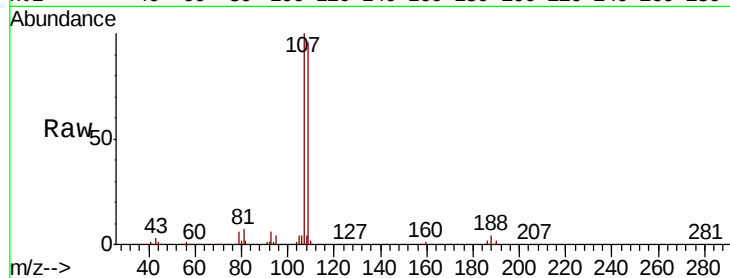




#61
 1,2-Dibromoethane
 Concen: 46.923 ug/l
 RT: 8.57 min Scan# 2325
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

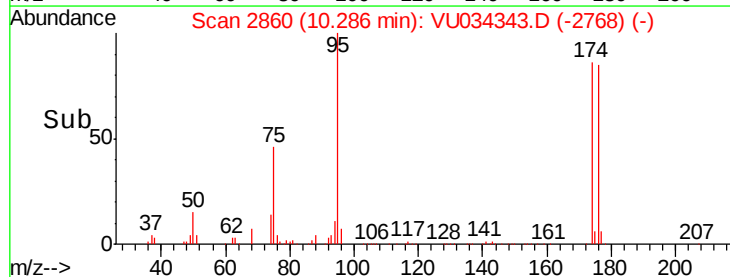
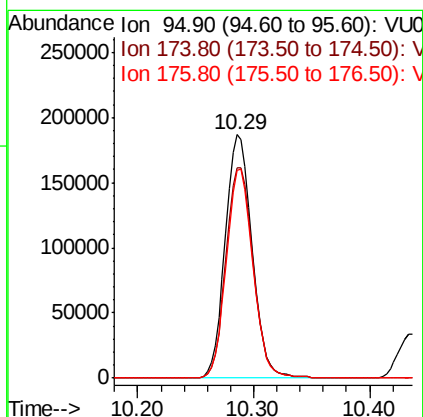
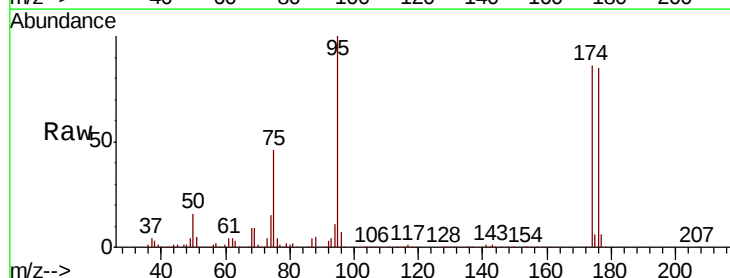
Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

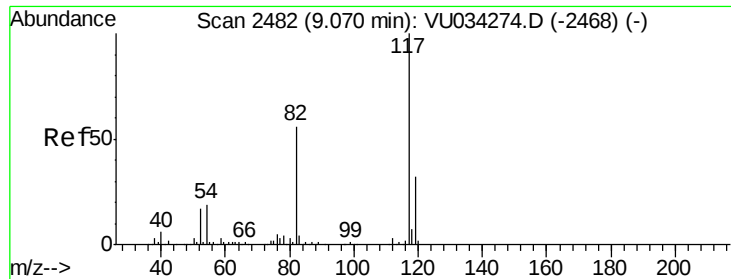
Tgt Ion: 107 Resp: 217385
 Ion Ratio Lower Upper
 107 100
 109 94.2 75.0 112.6



#62
 4-Bromofluorobenzene
 Concen: 46.522 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion: 95 Resp: 298176
 Ion Ratio Lower Upper
 95 100
 174 88.3 0.0 175.2
 176 85.5 0.0 168.0

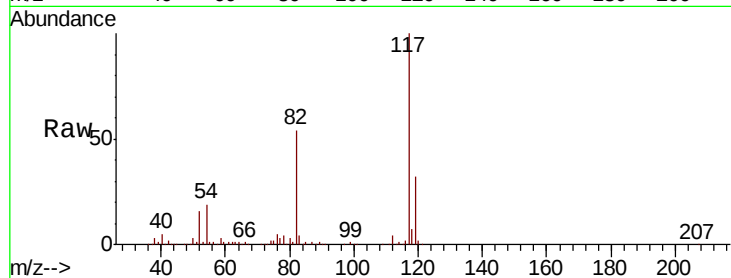




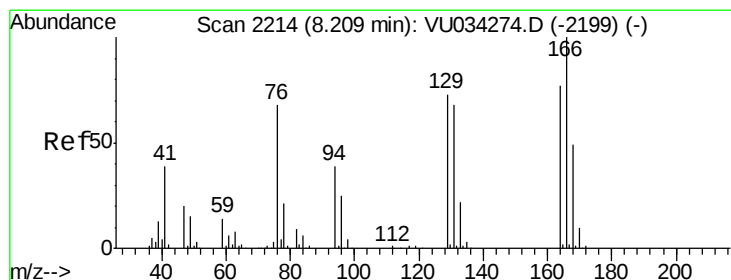
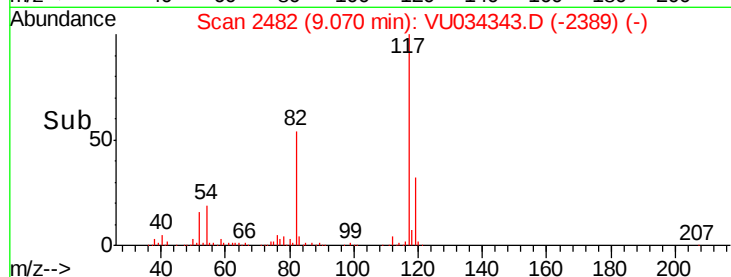
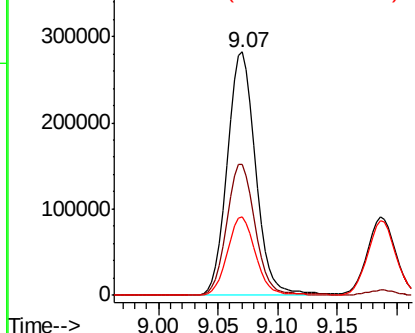
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion:117 Resp: 467754
Ion Ratio Lower Upper
117 100
82 53.6 44.6 67.0
119 32.1 25.9 38.9

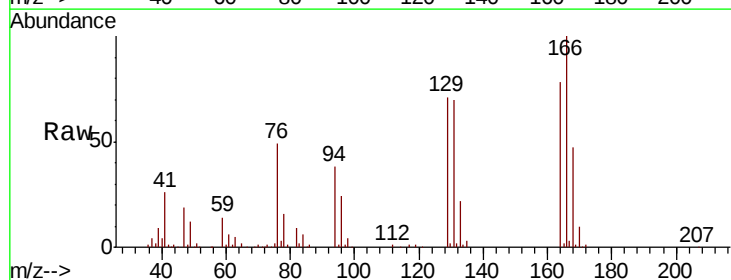


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

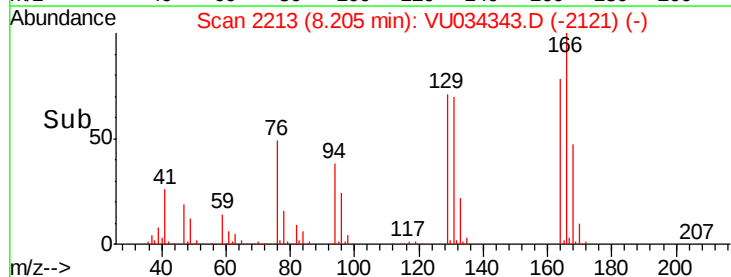
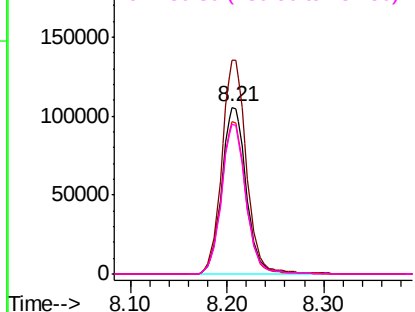


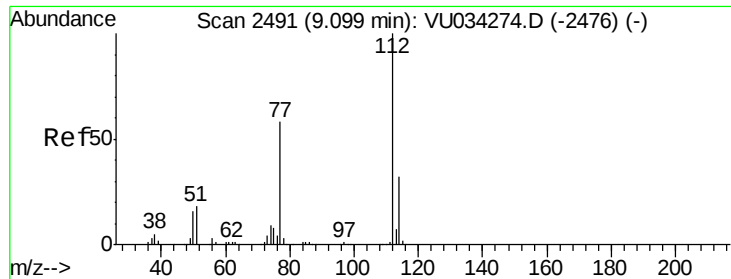
#64
Tetrachloroethene
Concen: 45.732 ug/l
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion:164 Resp: 185581
Ion Ratio Lower Upper
164 100
166 128.2 103.7 155.5
129 91.5 75.8 113.8
131 90.2 70.7 106.1



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

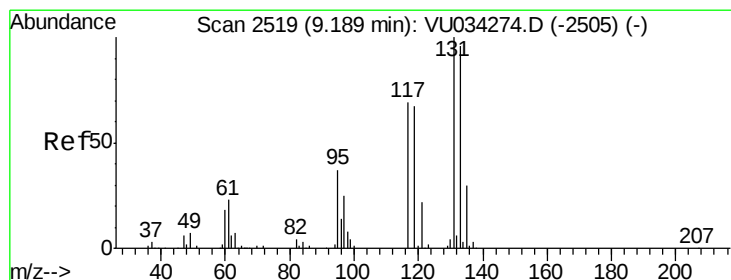
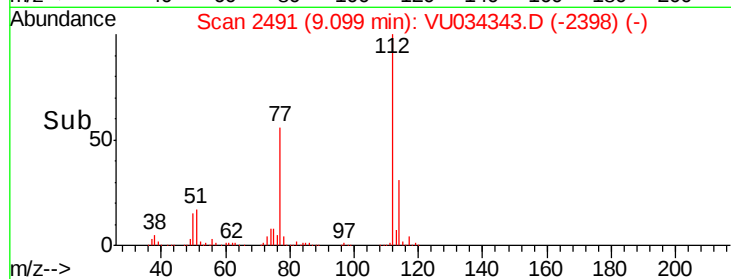
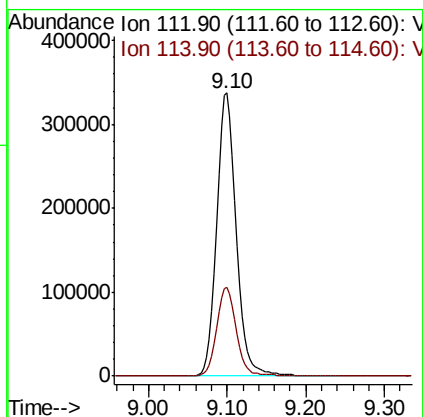
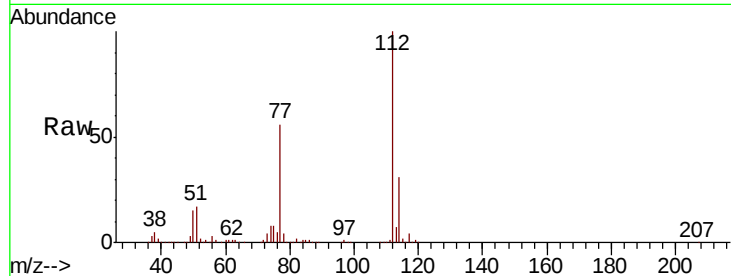




#65
Chlorobenzene
Concen: 48.506 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

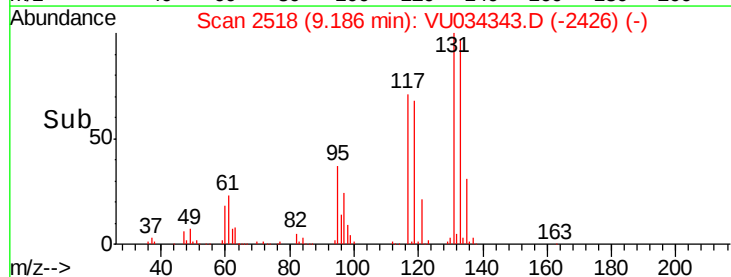
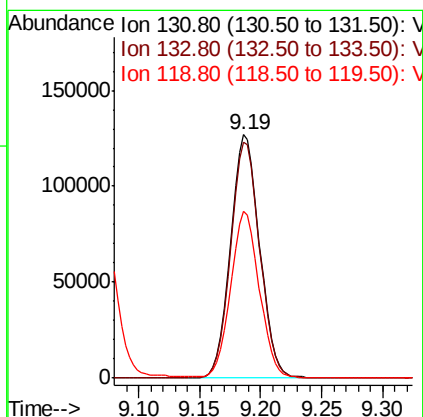
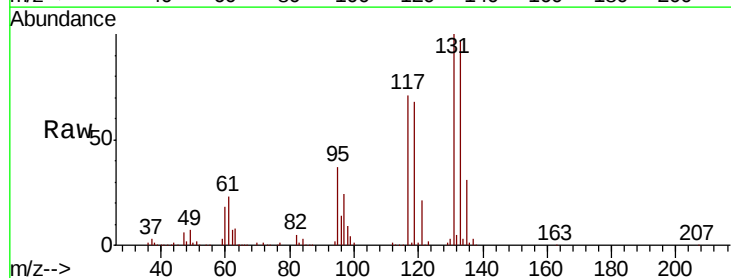
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

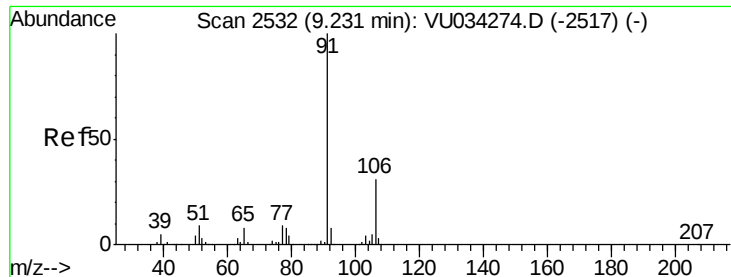
Tgt Ion:112 Resp: 575623
Ion Ratio Lower Upper
112 100
114 31.3 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 46.555 ug/l
RT: 9.19 min Scan# 2518
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion:131 Resp: 210843
Ion Ratio Lower Upper
131 100
133 97.0 47.9 143.7
119 68.0 33.1 99.5





#67

Ethyl Benzene

Concen: 49.955 ug/l

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

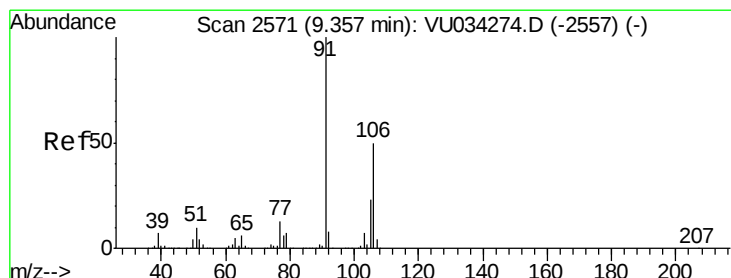
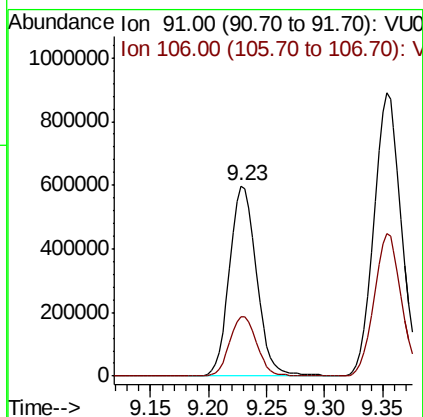
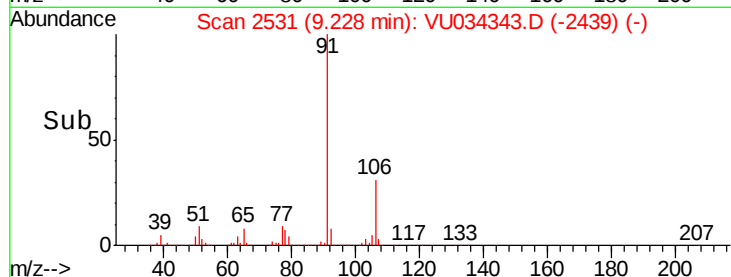
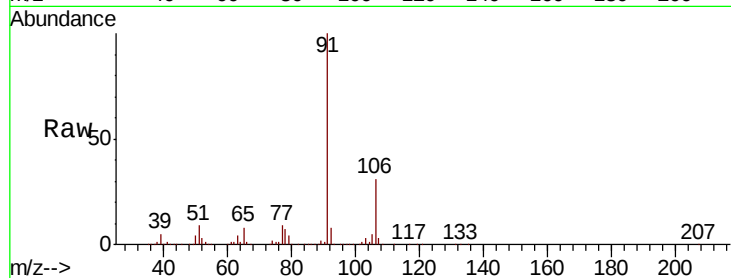
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 91 Resp: 969308

Ion Ratio Lower Upper

91 100

106 31.2 24.8 37.2



#68

m/p-Xylenes

Concen: 102.043 ug/l

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034343.D

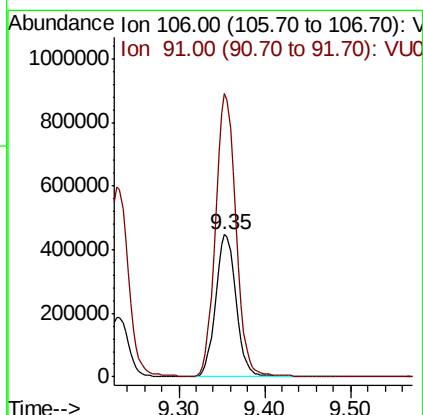
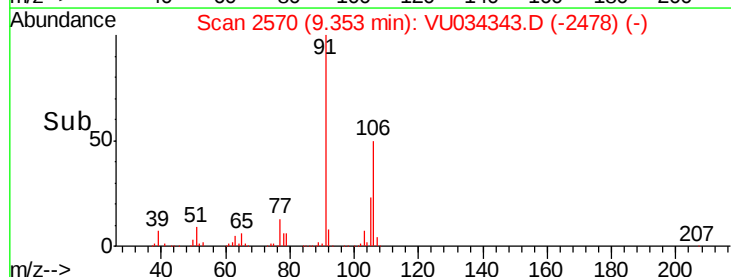
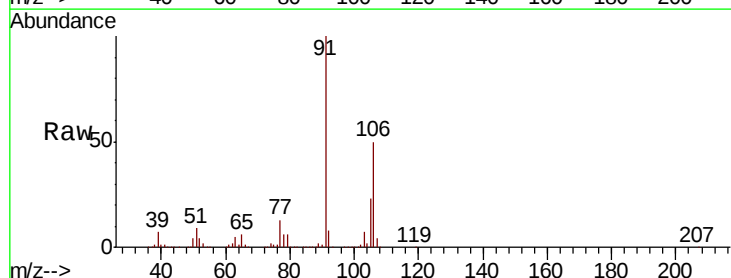
Acq: 06 Sep 2019 20:03

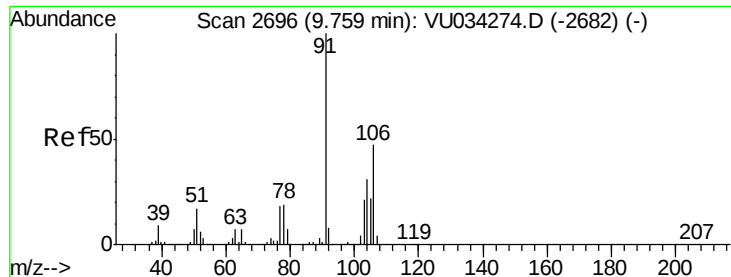
Tgt Ion: 106 Resp: 745584

Ion Ratio Lower Upper

106 100

91 199.2 160.1 240.1

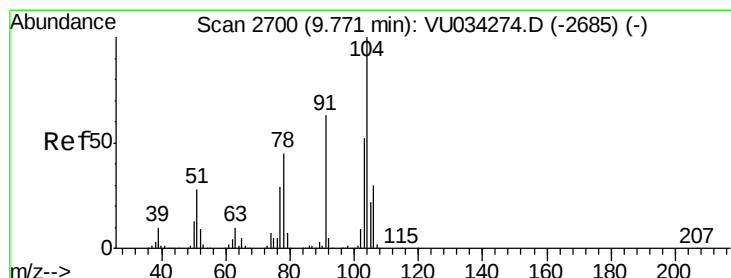
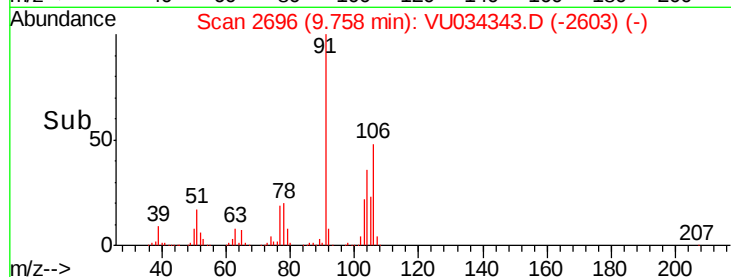
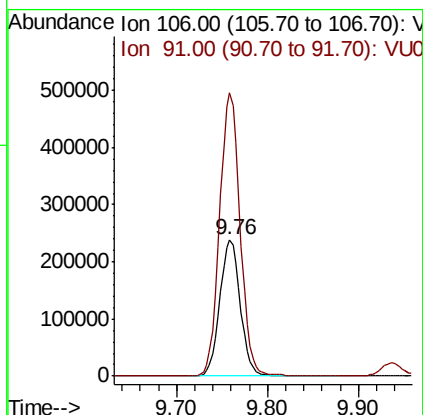
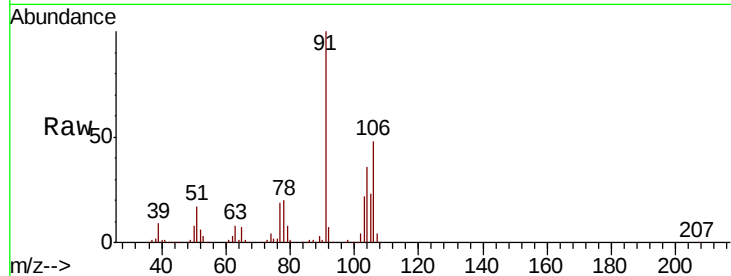




#69
o-Xylene
Concen: 52.240 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

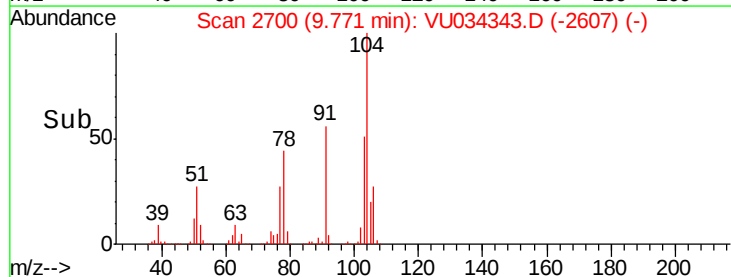
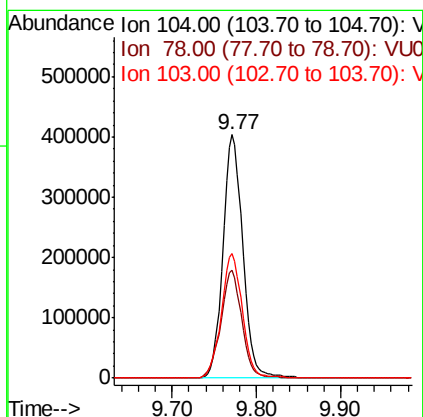
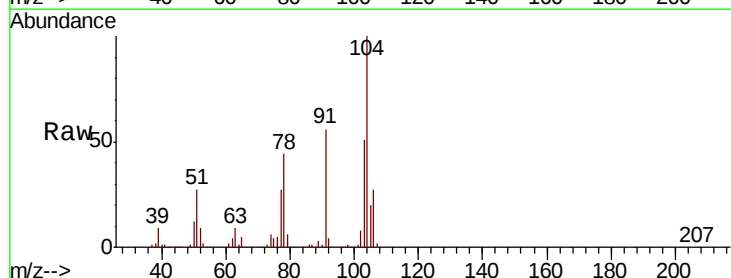
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

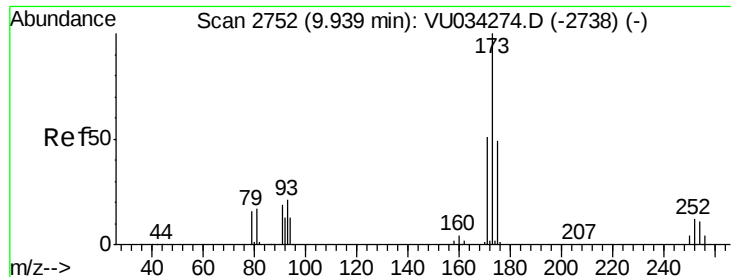
Tgt Ion:106 Resp: 373285
Ion Ratio Lower Upper
106 100
91 208.3 105.1 315.3



#70
Styrene
Concen: 52.778 ug/l
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion:104 Resp: 661209
Ion Ratio Lower Upper
104 100
78 46.9 38.6 57.8
103 54.3 44.2 66.4





#71

Bromoform

Concen: 47.509 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

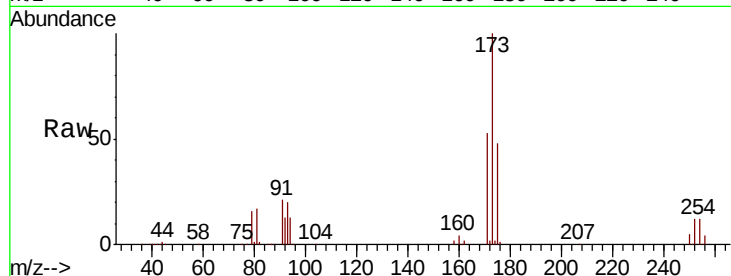
Tgt Ion:173 Resp: 186476

Ion Ratio Lower Upper

173 100

175 48.9 24.4 73.2

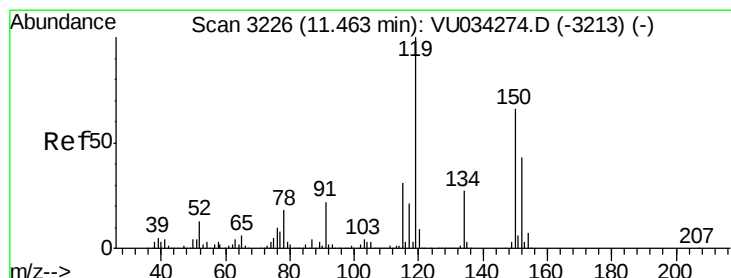
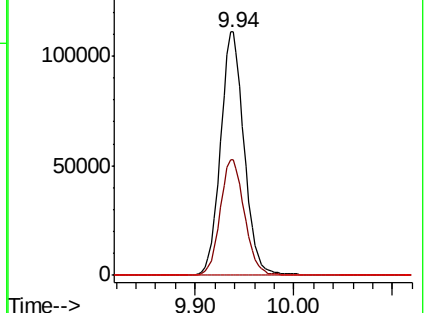
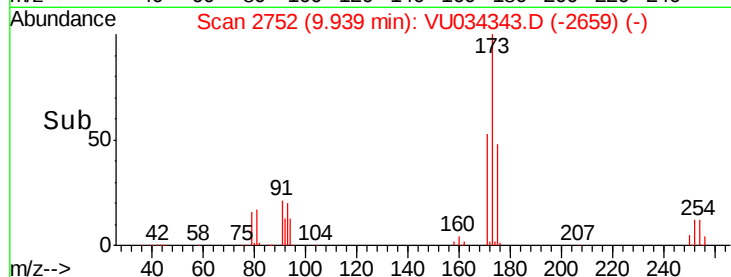
254 0.1 0.0 0.0#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

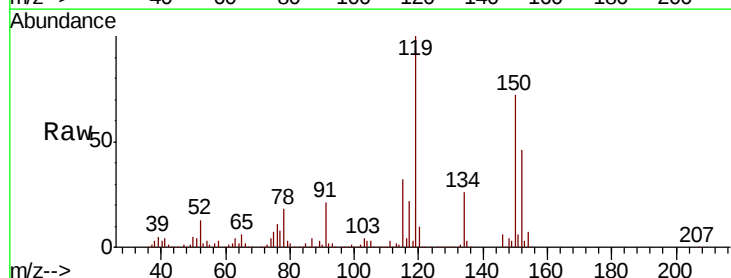
Tgt Ion:152 Resp: 304073

Ion Ratio Lower Upper

152 100

115 77.2 39.1 117.3

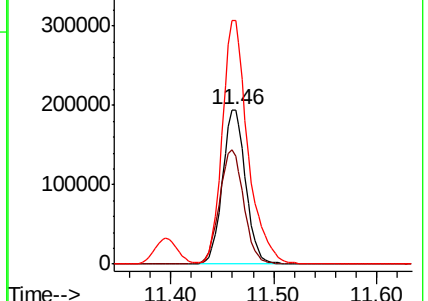
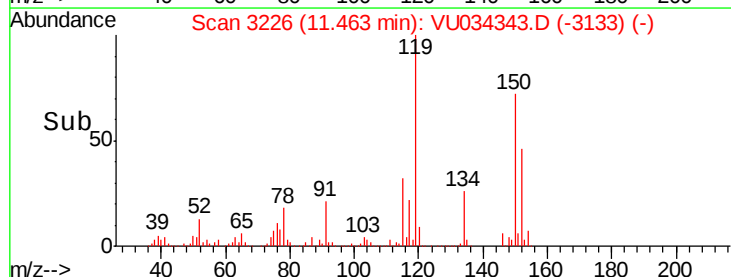
150 172.8 0.0 345.4

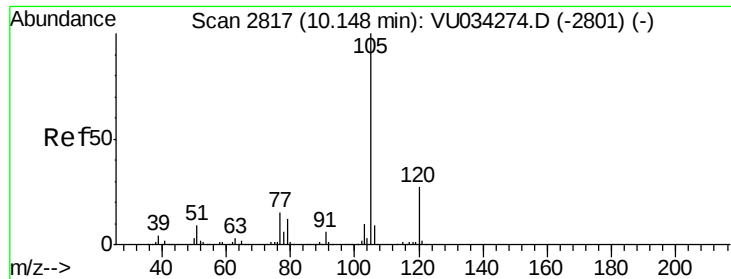


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 50.482 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

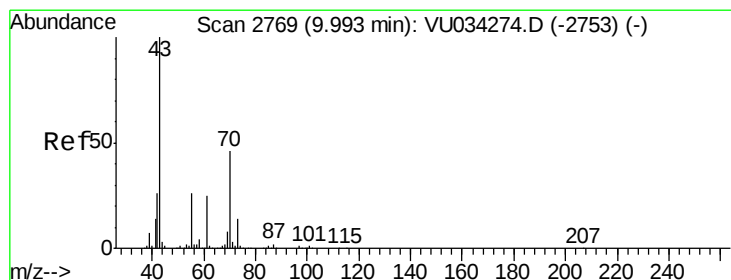
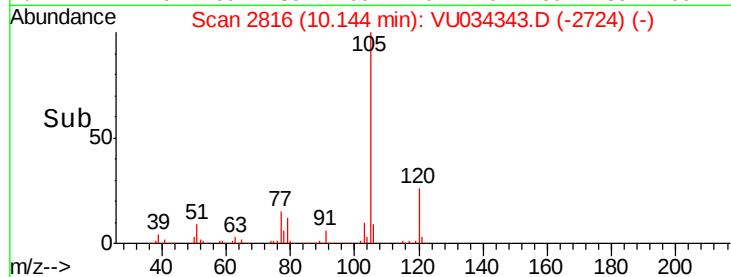
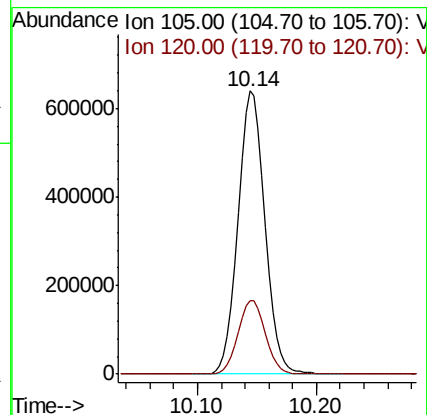
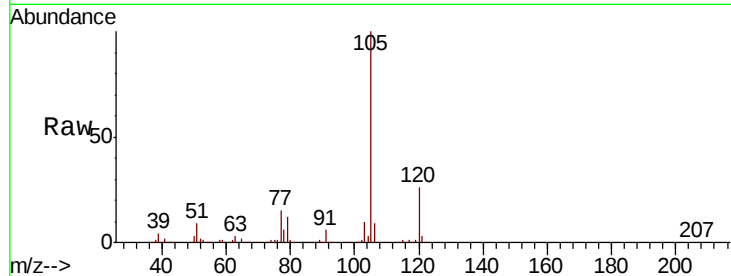
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 105 Resp: 998965

Ion Ratio Lower Upper

105 100

120 26.5 13.4 40.2



#74

N-ethyl acetate

Concen: 51.060 ug/l

RT: 9.99 min Scan# 2769

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion: 43 Resp: 406712

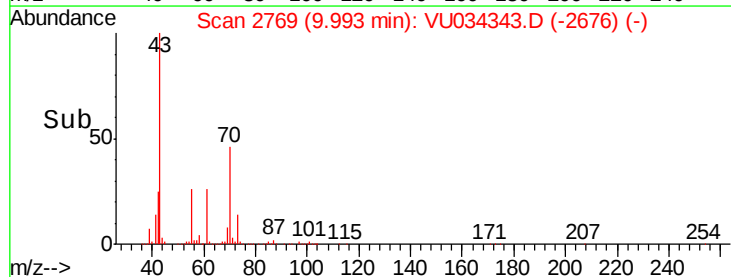
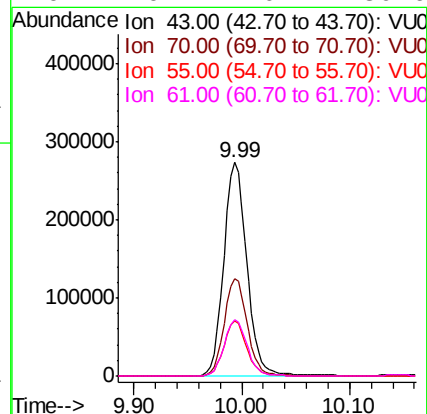
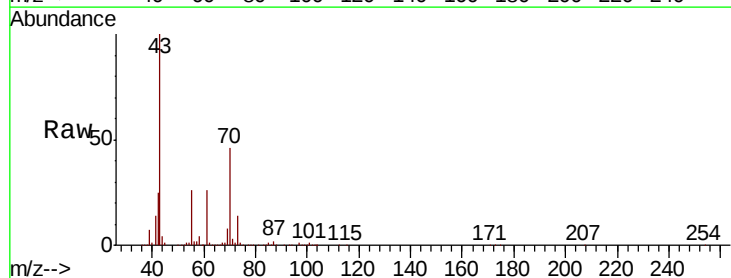
Ion Ratio Lower Upper

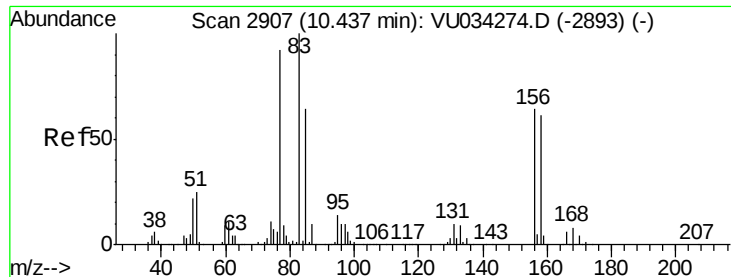
43 100

70 45.4 36.4 54.6

55 25.6 21.2 31.8

61 26.4 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 46.577 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

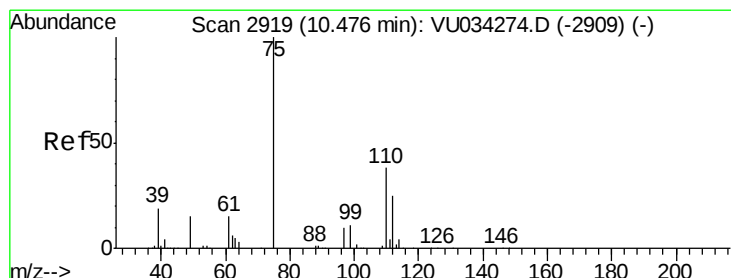
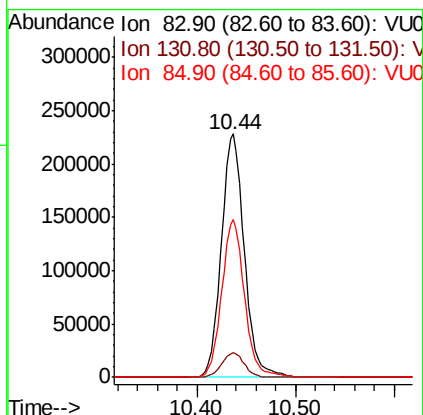
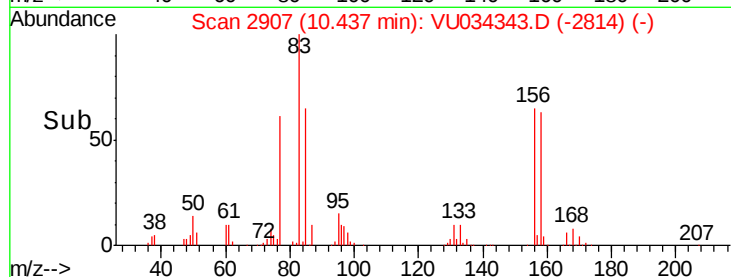
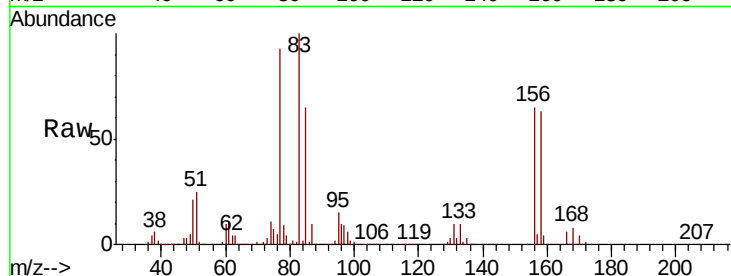
Tgt Ion: 83 Resp: 373072

Ion Ratio Lower Upper

83 100

131 10.1 5.1 15.2

85 64.5 32.0 96.2



#76

1,2,3-Trichloropropane

Concen: 60.088 ug/l

RT: 10.47 min Scan# 2918

Delta R.T. -0.00 min

Lab File: VU034343.D

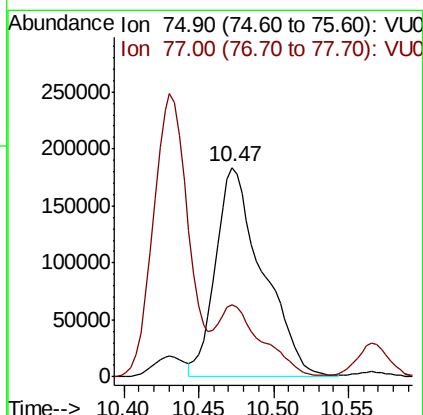
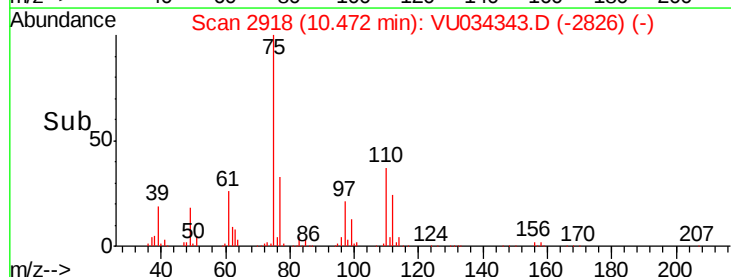
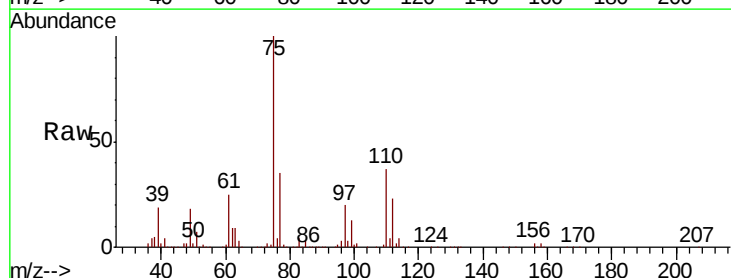
Acq: 06 Sep 2019 20:03

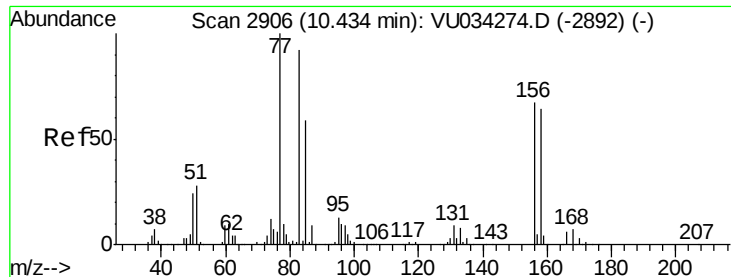
Tgt Ion: 75 Resp: 398828

Ion Ratio Lower Upper

75 100

77 31.5 20.8 62.2





#77

Bromobenzene

Concen: 49.581 ug/l

RT: 10.43 min Scan# 2905

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

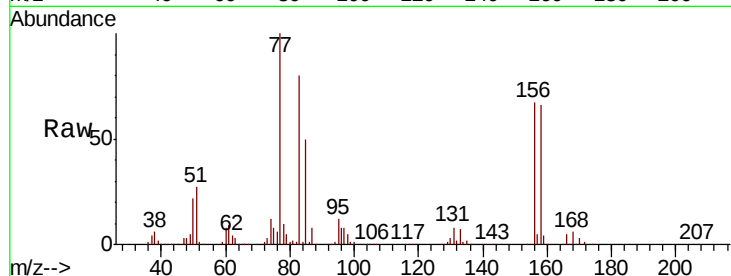
Tgt Ion:156 Resp: 274337

Ion Ratio Lower Upper

156 100

77 146.2 75.6 226.9

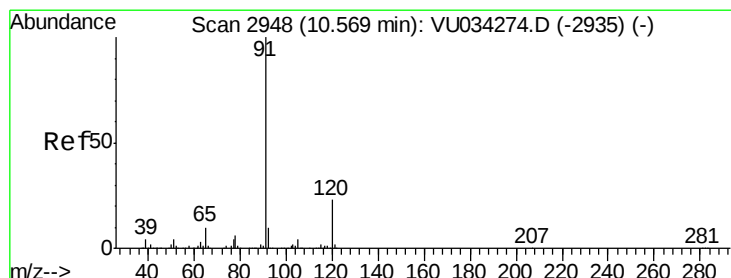
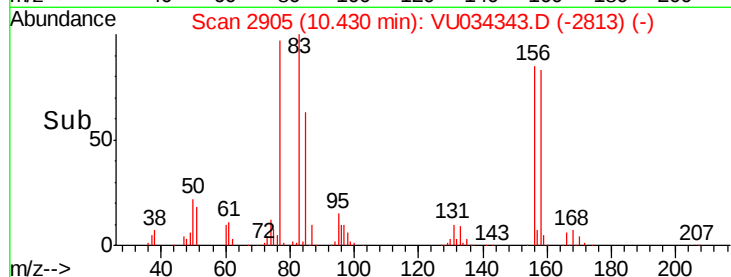
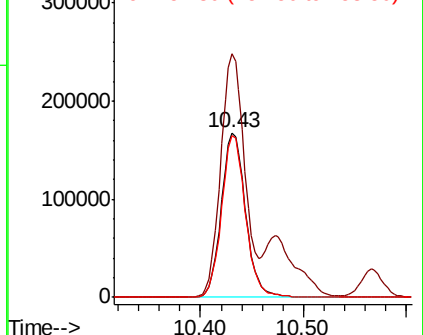
158 97.0 48.2 144.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 50.280 ug/l

RT: 10.57 min Scan# 2947

Delta R.T. -0.00 min

Lab File: VU034343.D

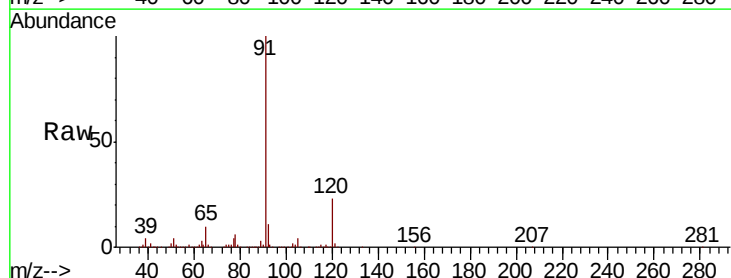
Acq: 06 Sep 2019 20:03

Tgt Ion: 91 Resp: 1149076

Ion Ratio Lower Upper

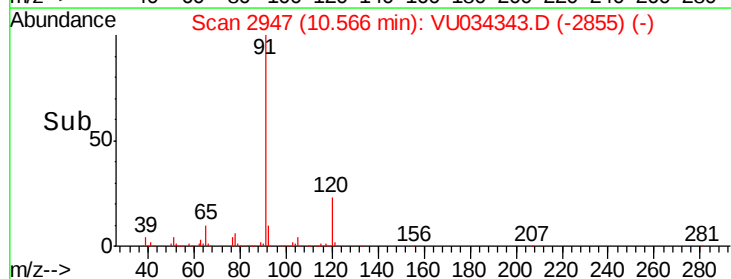
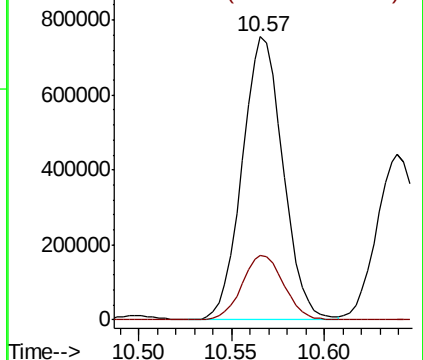
91 100

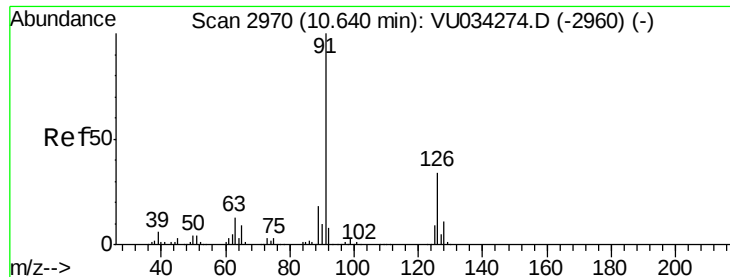
120 23.4 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.578 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

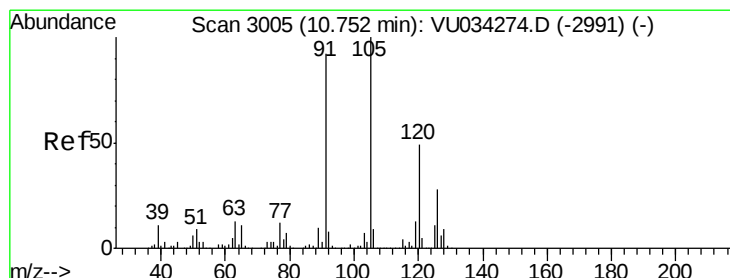
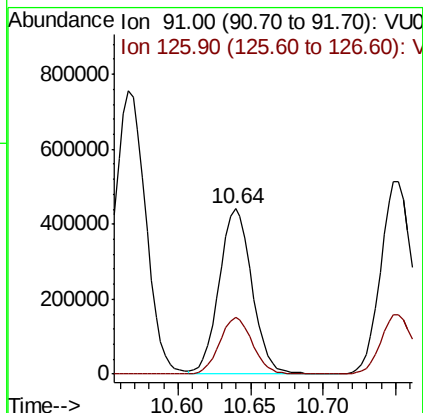
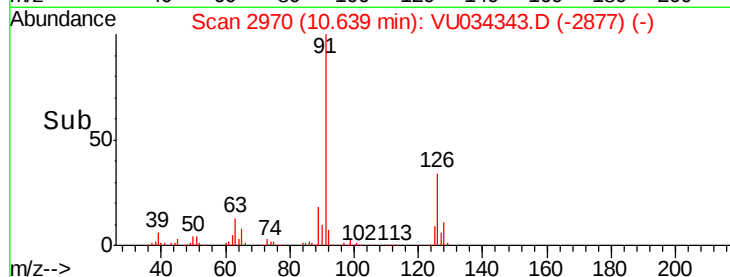
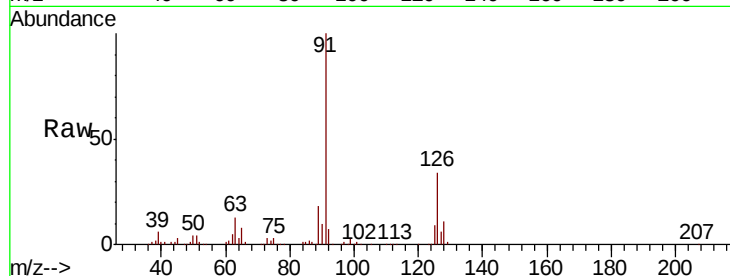
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion: 91 Resp: 691330

Ion Ratio Lower Upper

91 100

126 34.5 17.3 51.9



#80

1,3,5-Trimethylbenzene

Concen: 51.998 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VU034343.D

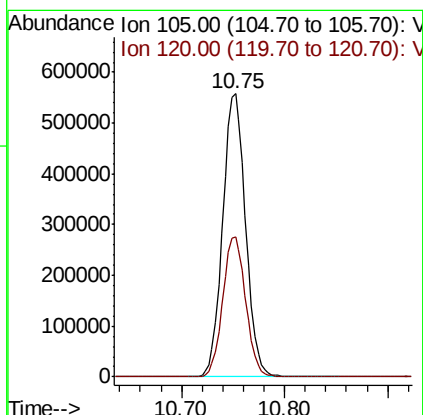
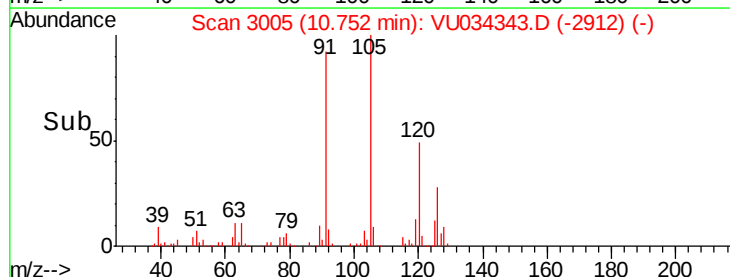
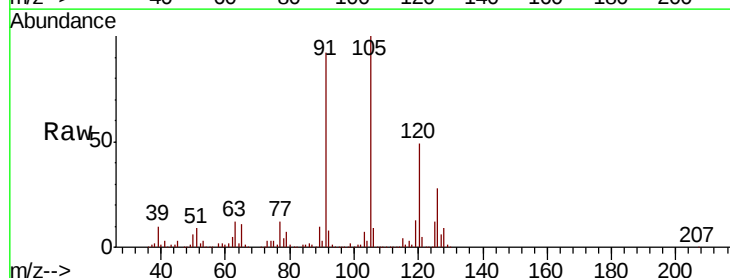
Acq: 06 Sep 2019 20:03

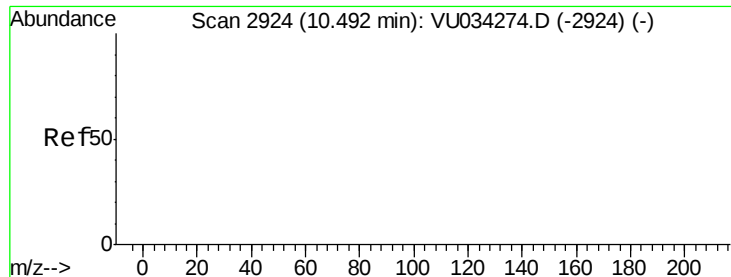
Tgt Ion: 105 Resp: 860562

Ion Ratio Lower Upper

105 100

120 49.5 24.9 74.7





#81

trans-1,4-Dichloro-2-butene

Concen: 202.888 ug/l

RT: 10.47 min Scan# 2918

Delta R.T. -0.02 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

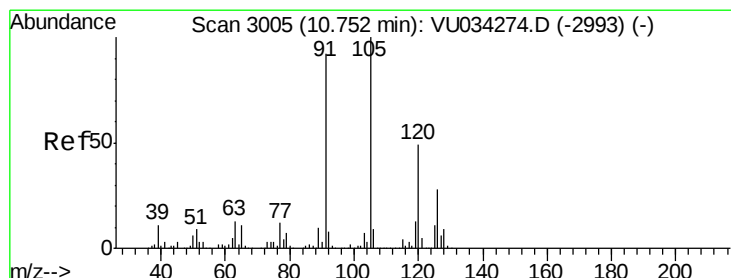
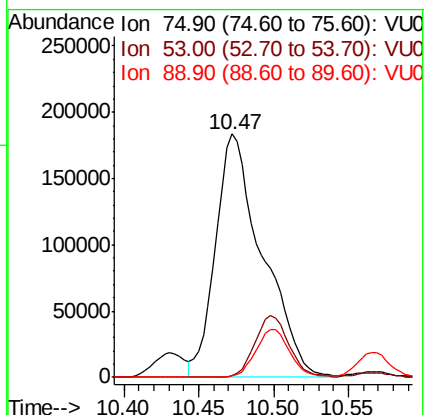
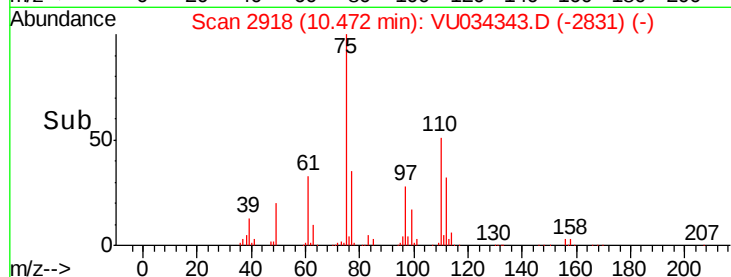
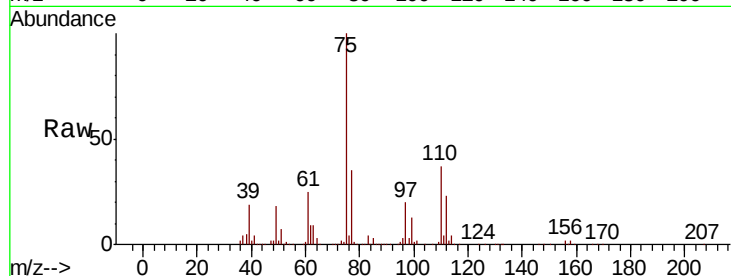
Tgt Ion: 75 Resp: 400437

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#82

4-Chlorotoluene

Concen: 49.889 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VU034343.D

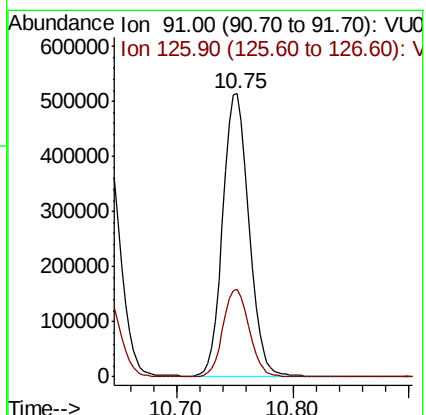
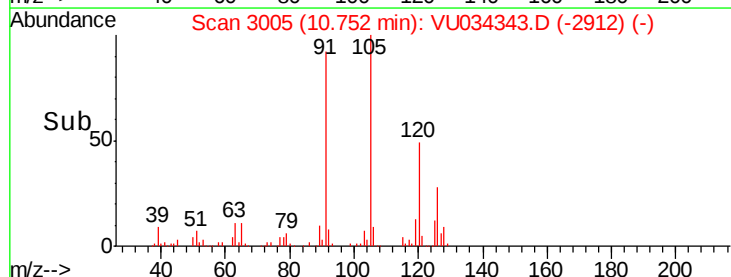
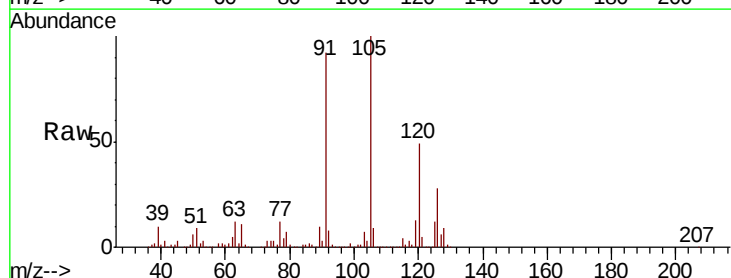
Acq: 06 Sep 2019 20:03

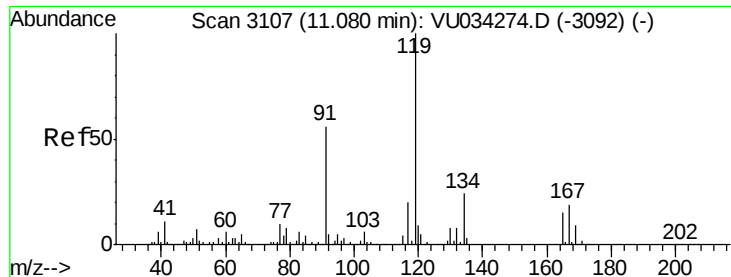
Tgt Ion: 91 Resp: 800577

Ion Ratio Lower Upper

91 100

126 31.2 15.3 45.8

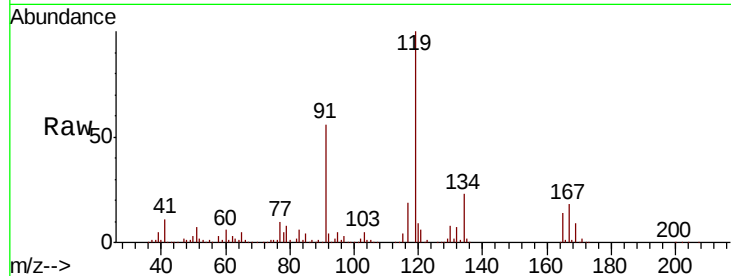




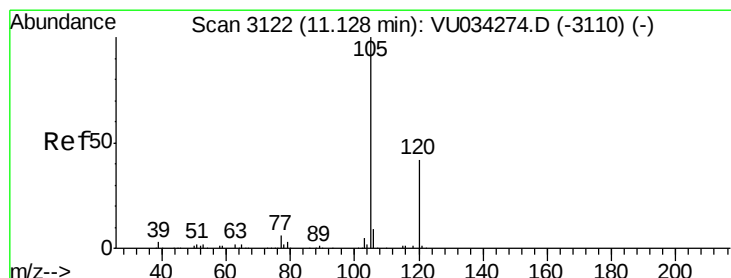
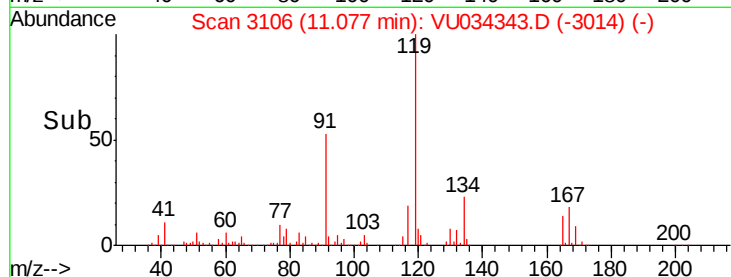
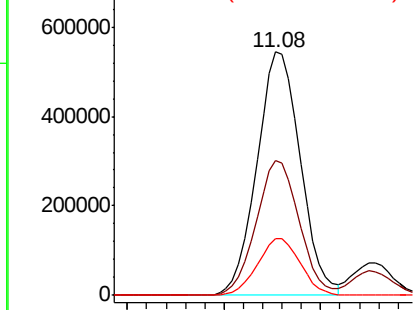
#83
 tert-Butylbenzene
 Concen: 51.341 ug/l
 RT: 11.08 min Scan# 3106
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tgt Ion:119 Resp: 850012
 Ion Ratio Lower Upper
 119 100
 91 54.6 27.8 83.4
 134 23.1 11.7 35.0

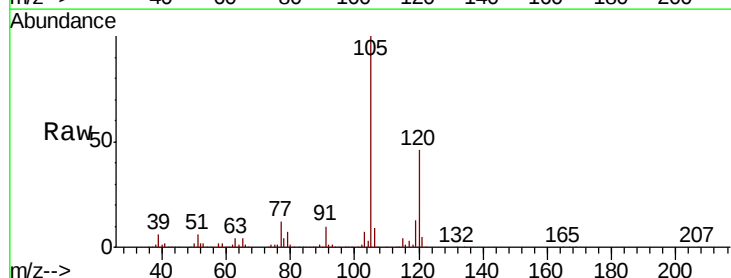


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VU
 Ion 134.00 (133.70 to 134.70): V

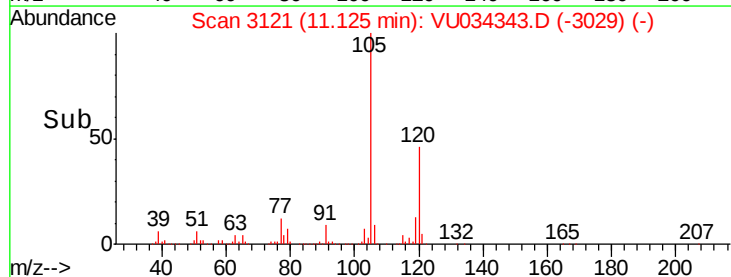
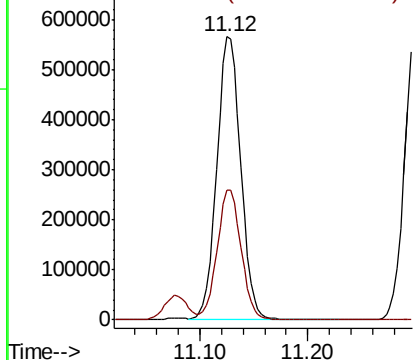


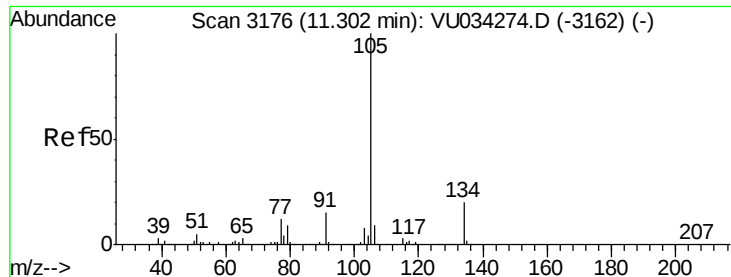
#84
 1,2,4-Trimethylbenzene
 Concen: 52.048 ug/l
 RT: 11.12 min Scan# 3121
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion:105 Resp: 867080
 Ion Ratio Lower Upper
 105 100
 120 46.1 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 51.548 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

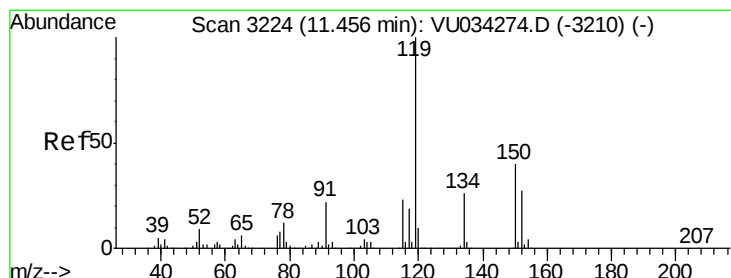
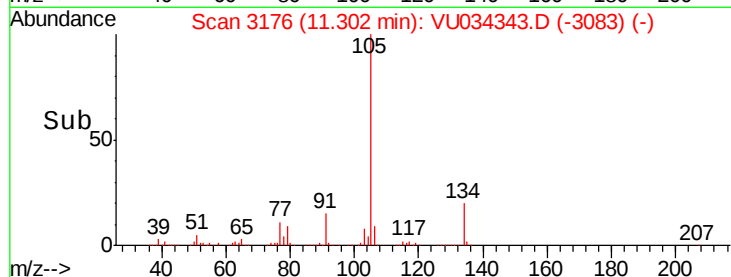
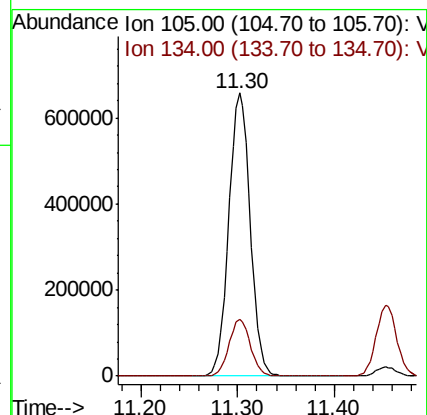
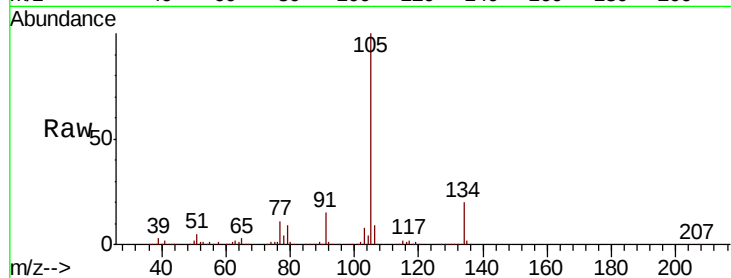
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion:105 Resp: 1007537

Ion Ratio Lower Upper

105 100

134 20.1 10.1 30.3



#86

p-Isopropyltoluene

Concen: 51.708 ug/l

RT: 11.45 min Scan# 3223

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

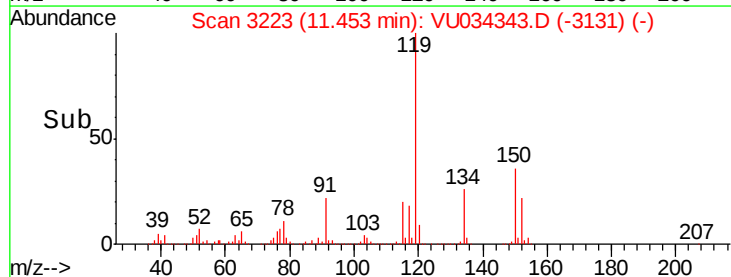
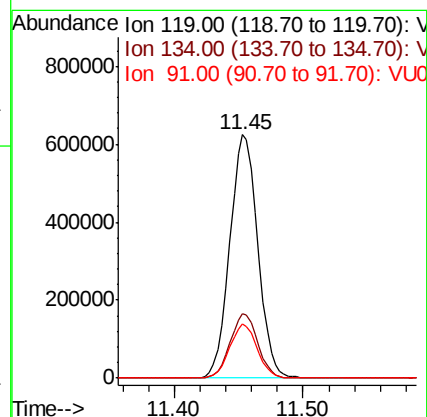
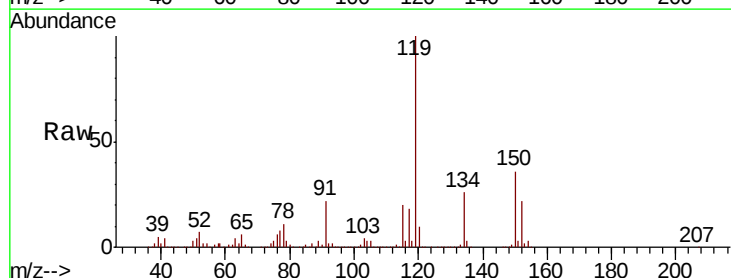
Tgt Ion:119 Resp: 932824

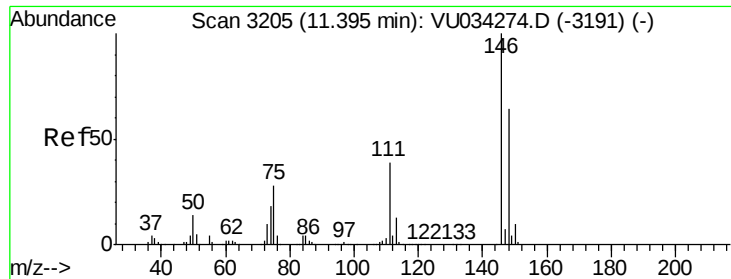
Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.8

91 21.9 11.2 33.6

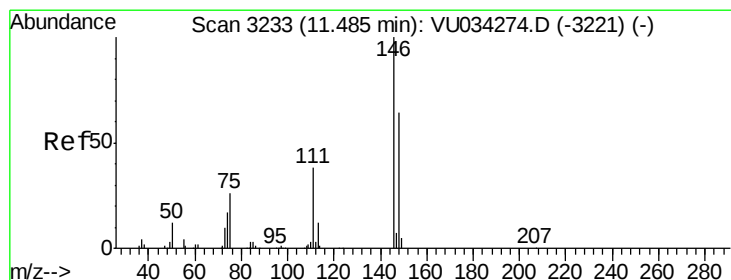
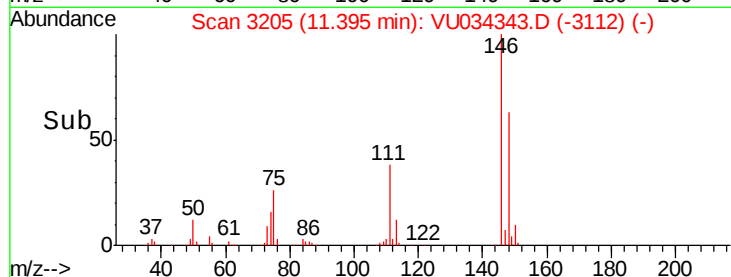
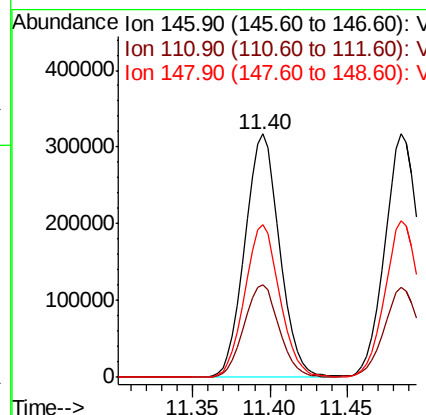
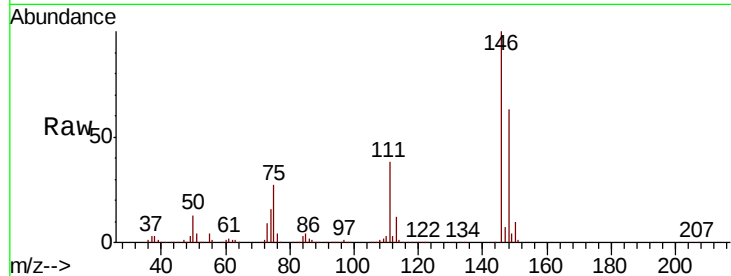




#87
 1,3-Dichlorobenzene
 Concen: 49.135 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

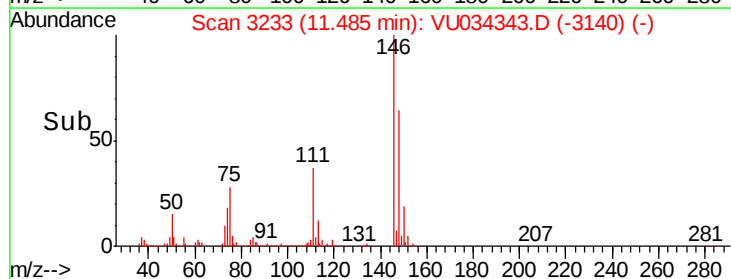
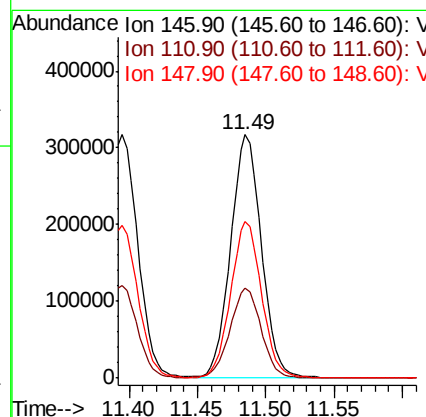
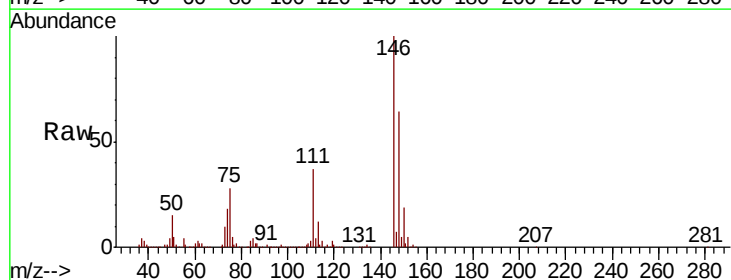
Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

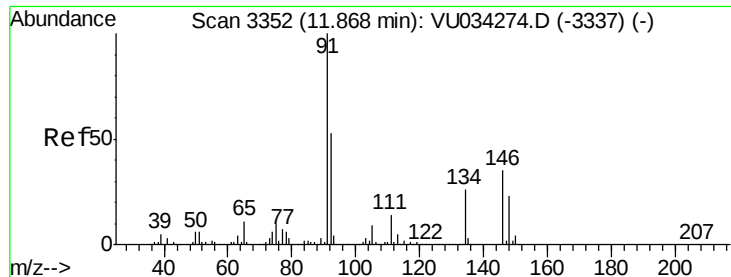
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.5	58.5
148	63.2	32.1	96.3



#88
 1,4-Dichlorobenzene
 Concen: 47.027 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.3
148	64.6	32.0	96.0

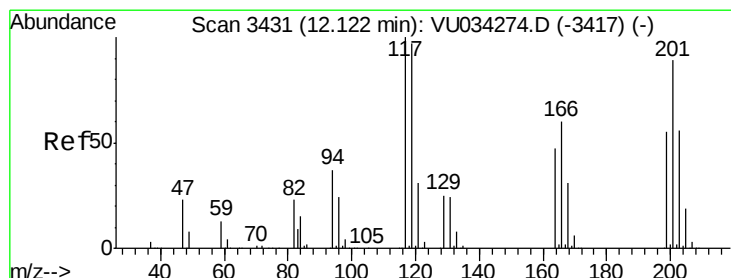
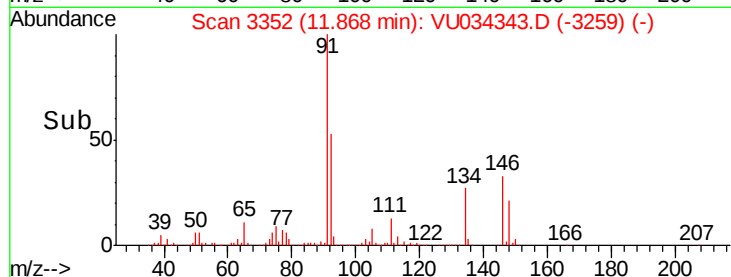
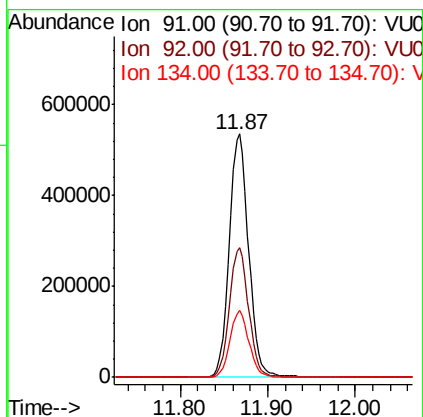
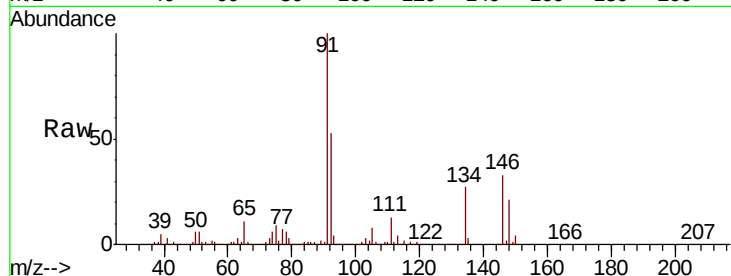




#89
n-Butylbenzene
Concen: 52.527 ug/l
RT: 11.87 min Scan# 3352
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

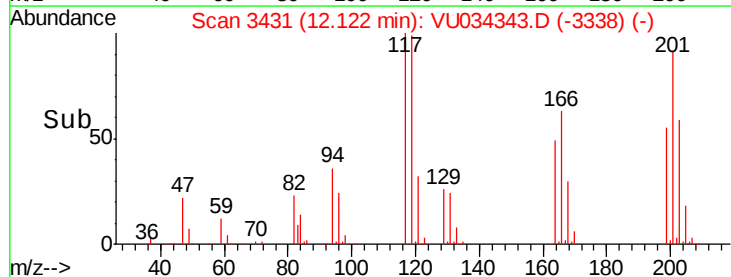
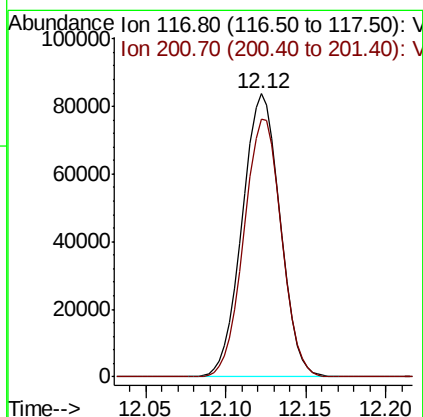
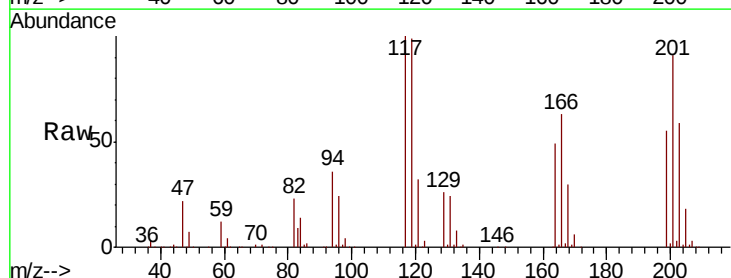
Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

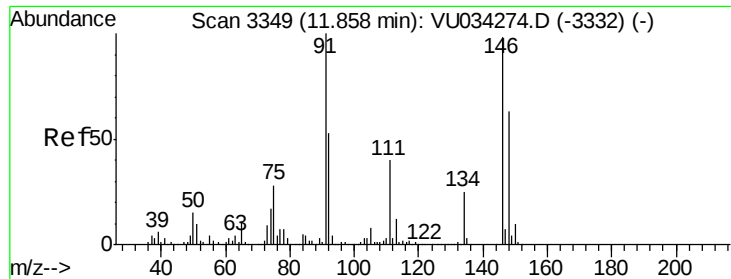
Tgt Ion: 91 Resp: 823496
Ion Ratio Lower Upper
91 100
92 53.2 26.5 79.4
134 27.0 13.2 39.6



#90
Hexachloroethane
Concen: 46.836 ug/l
RT: 12.12 min Scan# 3431
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 117 Resp: 135181
Ion Ratio Lower Upper
117 100
201 90.2 44.1 132.4





#91

1,2-Dichlorobenzene

Concen: 49.170 ug/l

RT: 11.86 min Scan# 3349

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

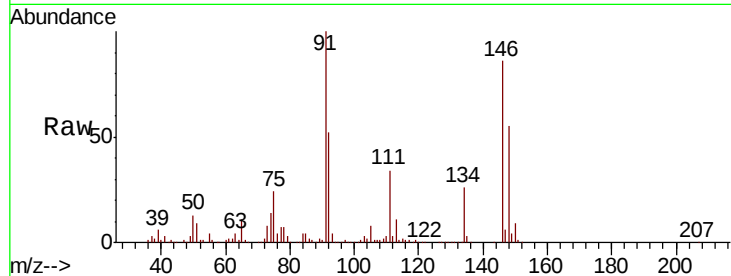
Tgt Ion:146 Resp: 487909

Ion Ratio Lower Upper

146 100

111 40.2 20.0 60.0

148 64.0 31.6 94.8

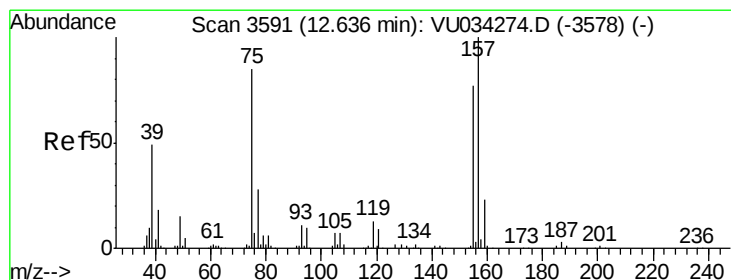
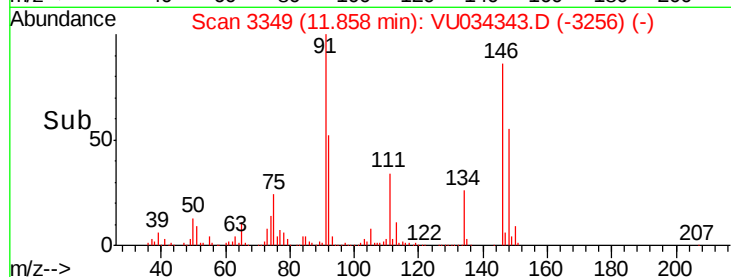
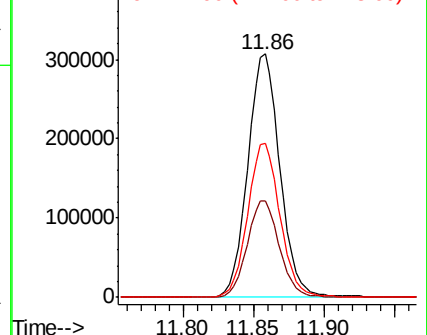


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.962 ug/l

RT: 12.64 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

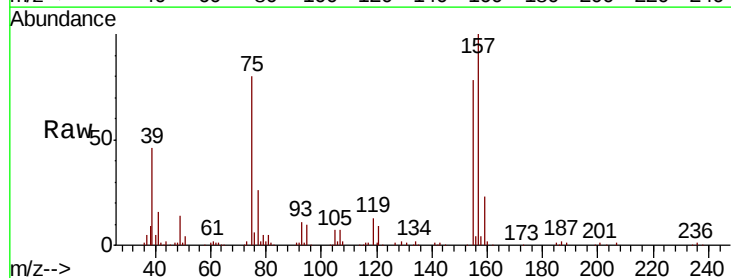
Tgt Ion: 75 Resp: 76482

Ion Ratio Lower Upper

75 100

155 94.5 44.6 134.0

157 120.5 58.2 174.6

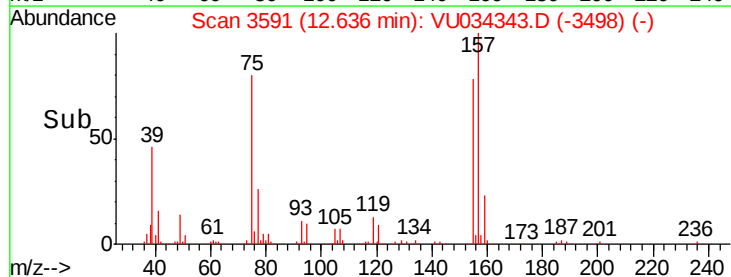
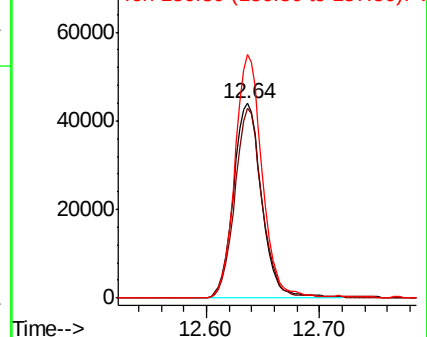


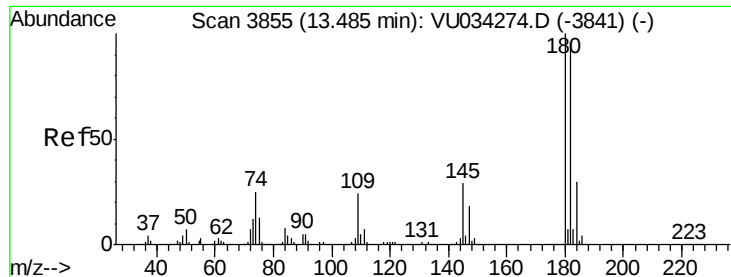
Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

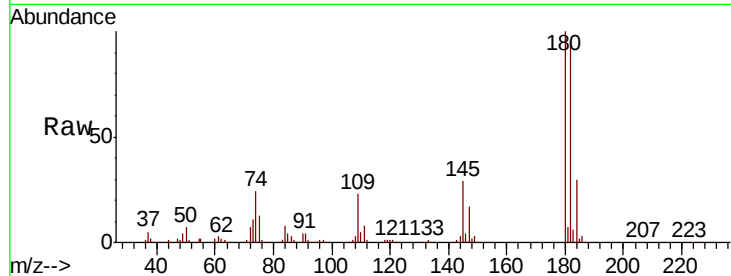




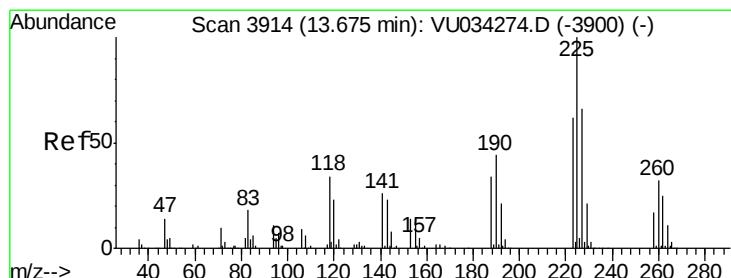
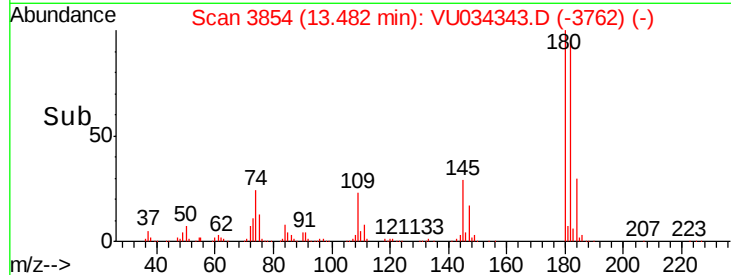
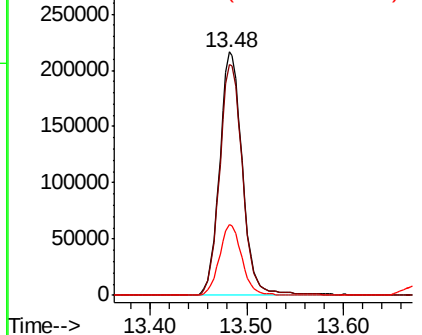
#93
 1,2,4-Trichlorobenzene
 Concen: 49.233 ug/l
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tgt Ion:180 Resp: 353902
 Ion Ratio Lower Upper
 180 100
 182 95.7 47.9 143.8
 145 28.8 14.4 43.0

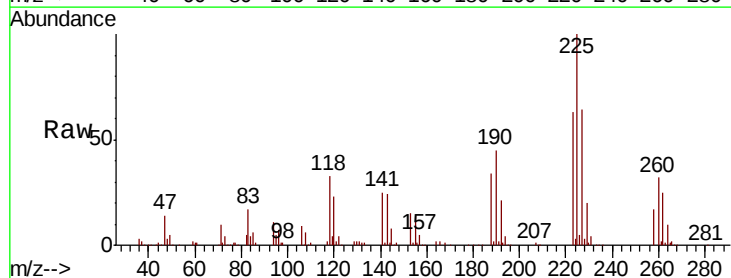


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

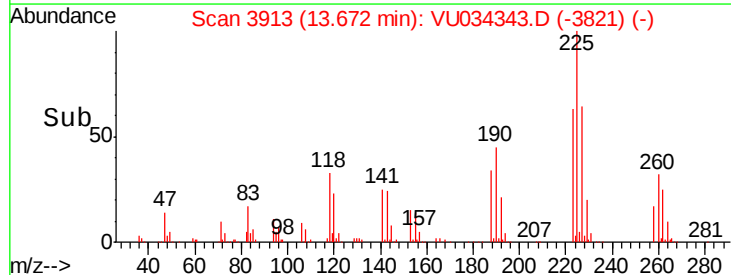
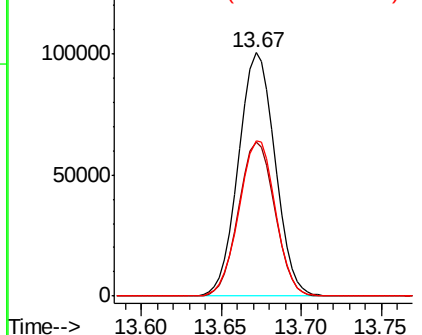


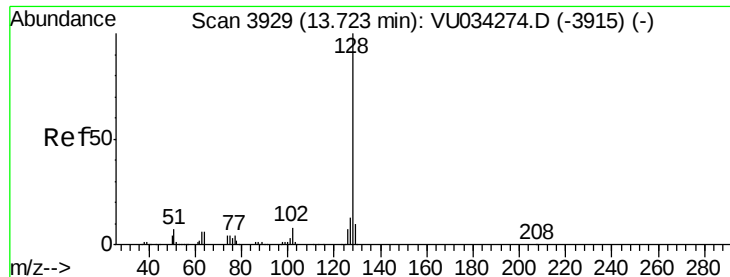
#94
 Hexachlorobutadiene
 Concen: 45.080 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion:225 Resp: 156470
 Ion Ratio Lower Upper
 225 100
 223 62.8 31.6 94.7
 227 63.8 32.3 96.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

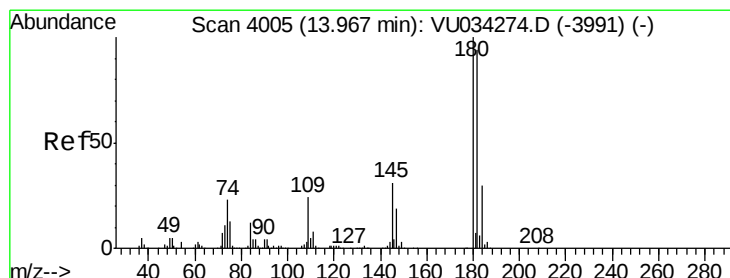
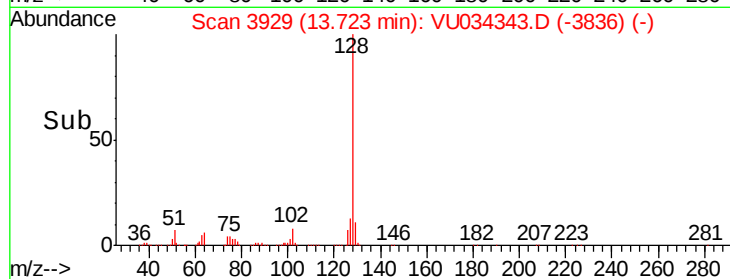
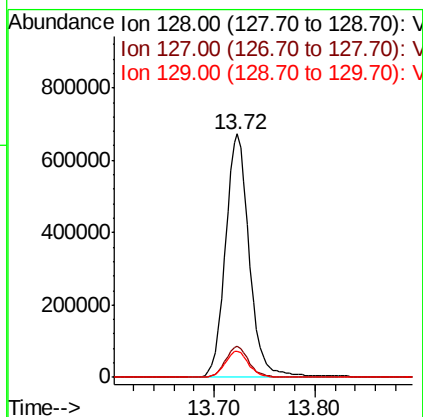
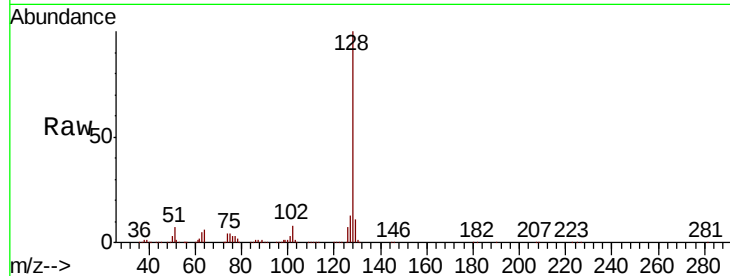




#95
Naphthalene
Concen: 54.506 ug/l
RT: 13.72 min Scan# 3929
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tgt Ion:128 Resp: 1112471
Ion Ratio Lower Upper
128 100
127 12.7 10.6 15.8
129 10.4 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 49.785 ug/l
RT: 13.97 min Scan# 4005
Delta R.T. 0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion:180 Resp: 345976
Ion Ratio Lower Upper
180 100
182 96.1 48.4 145.0
145 30.4 15.4 46.4

