

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034316.D
 Acq On : 06 Sep 2019 09:21
 Operator : JC/SP
 Sample : VU0907WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 06 12:23:28 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	407634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	619859	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	593052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	292091	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	246450	39.96	ug/l	0.00
Spiked Amount						
			Recovery	=	79.92%	
35) Dibromofluoromethane	4.86	113	209209	36.27	ug/l	0.00
Spiked Amount						
			Recovery	=	72.54%	
50) Toluene-d8	7.55	98	783942	36.18	ug/l	0.00
Spiked Amount						
			Recovery	=	72.36%	
62) 4-Bromofluorobenzene	10.29	95	268912	32.14	ug/l	0.00
Spiked Amount						
			Recovery	=	64.28%	

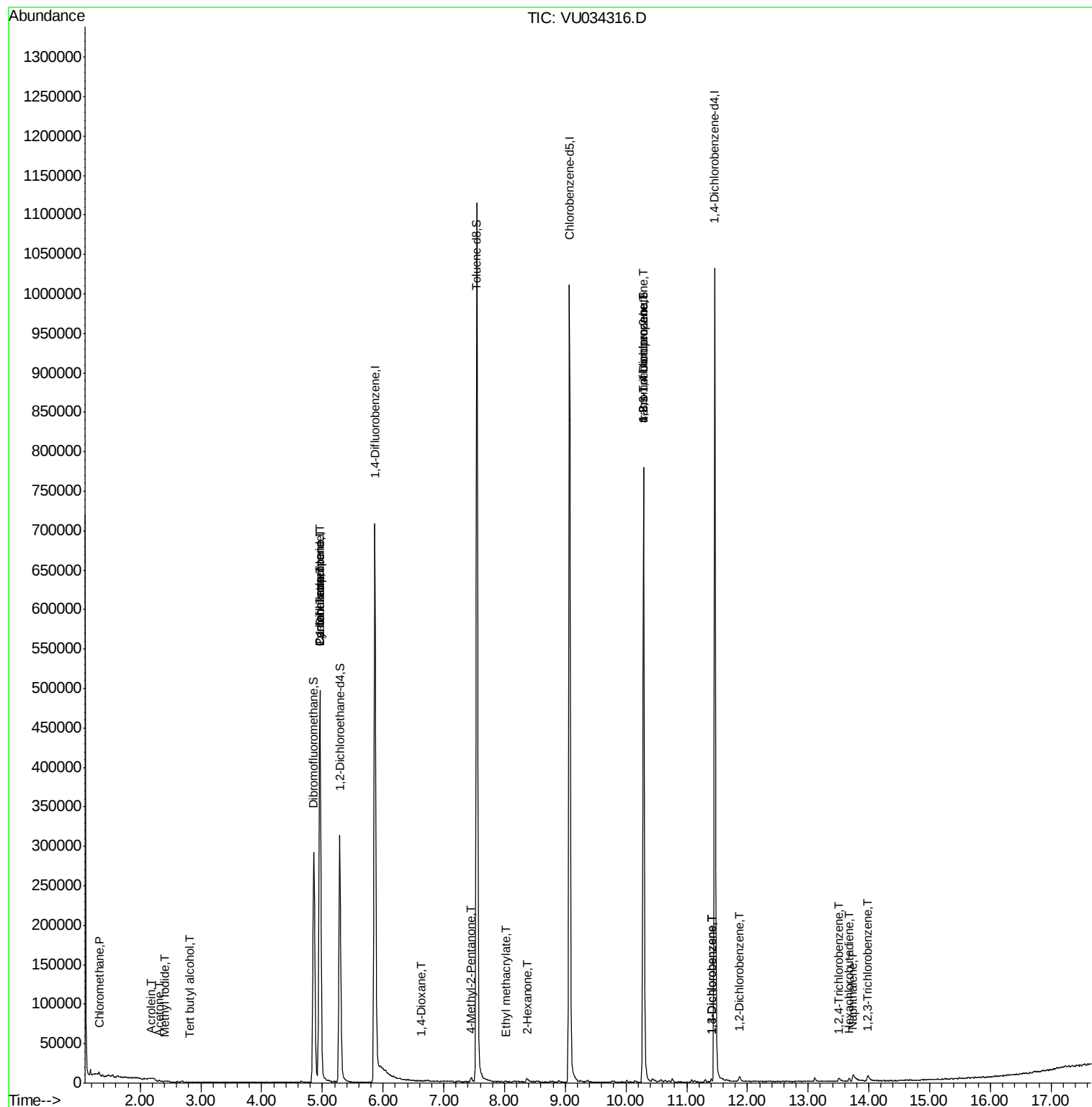
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1869	0.321	ug/l	99
5) Bromomethane	1.63	94	1800	Below Cal		84
6) Chloroethane	1.70	64	243	Below Cal	#	43
10) Methyl Iodide	2.41	142	920	4.043	ug/l #	77
11) Tert butyl alcohol	2.82	59	466	0.358	ug/l #	73
13) Acrolein	2.19	56	467	0.426	ug/l #	80
16) Acetone	2.31	43	1367	0.428	ug/l #	87
20) Methylene Chloride	2.68	84	742	Below Cal		92
31) Cyclohexane	4.96	56	6711	0.929	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	27490	4.089	ug/l #	48
38) Carbon Tetrachloride	4.96	117	36028	5.019	ug/l #	16
49) 1,4-Dioxane	6.62	88	230	1.789	ug/l #	1
51) 4-Methyl-2-Pentanone	7.45	43	4677	0.545	ug/l	93
56) Ethyl methacrylate	8.03	69	216	3.098	ug/l #	63
59) 2-Hexanone	8.37	43	4450	0.694	ug/l	99
76) 1,2,3-Trichloropropane	10.29	75	125198	19.636	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	125198	66.036	ug/l #	100
87) 1,3-Dichlorobenzene	11.40	146	2399	0.247	ug/l	96
88) 1,4-Dichlorobenzene	11.40	146	2399	0.237	ug/l	97
91) 1,2-Dichlorobenzene	11.86	146	2006	0.210	ug/l	95
93) 1,2,4-Trichlorobenzene	13.50	180	3209	3.884	ug/l #	87
94) Hexachlorobutadiene	13.67	225	1276	0.383	ug/l	94
95) Naphthalene	13.74	128	12499	4.557	ug/l	97
96) 1,2,3-Trichlorobenzene	13.98	180	2288	2.963	ug/l #	28

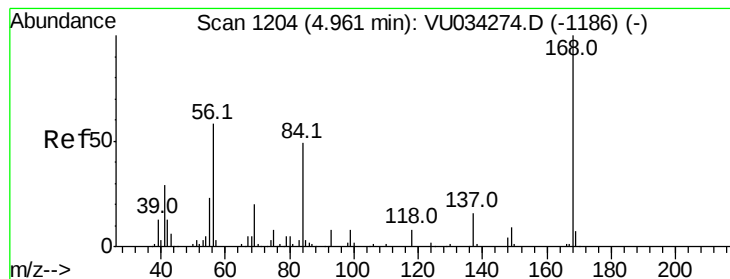
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034316.D

Acq: 06 Sep 2019 09:21

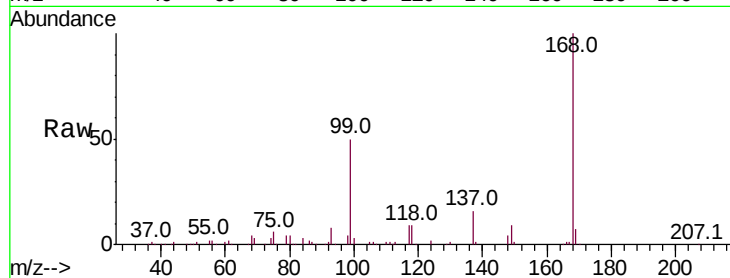
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 407634

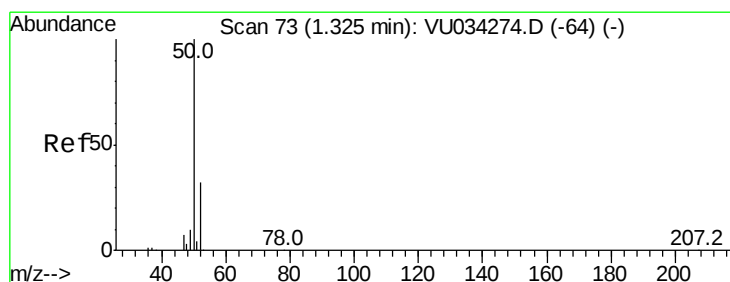
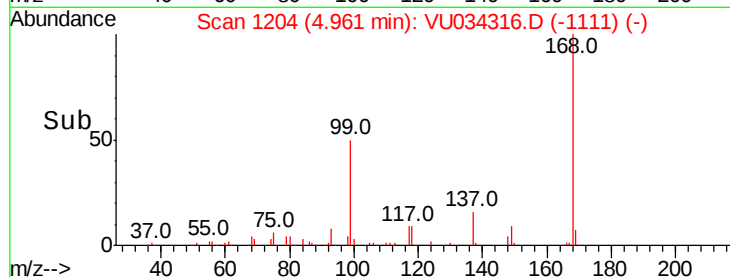
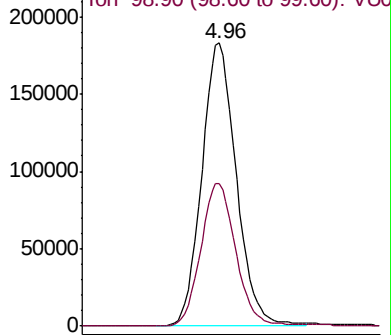
Ion Ratio Lower Upper

168 100

99 50.2 41.6 62.4



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



#3

Chloromethane

Concen: 0.321 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034316.D

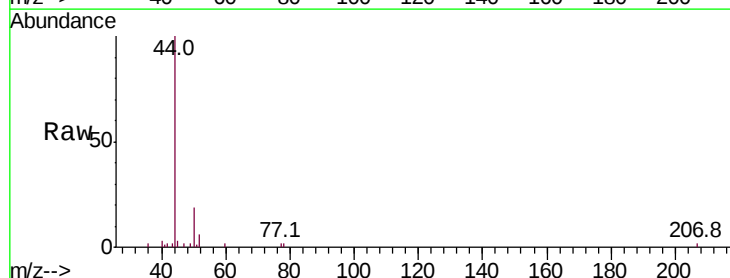
Acq: 06 Sep 2019 09:21

Tgt Ion: 50 Resp: 1869

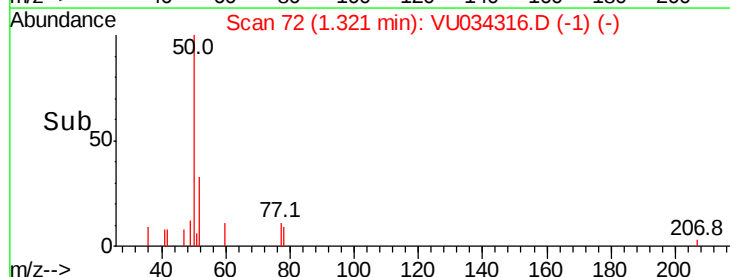
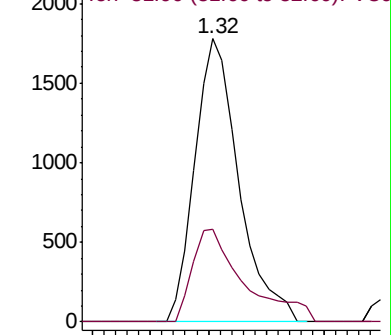
Ion Ratio Lower Upper

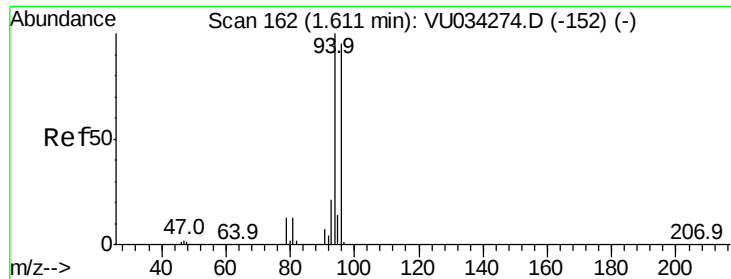
50 100

52 32.8 25.8 38.6



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





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034316.D

Acq: 06 Sep 2019 09:21

Instrument :

MSVOA_U

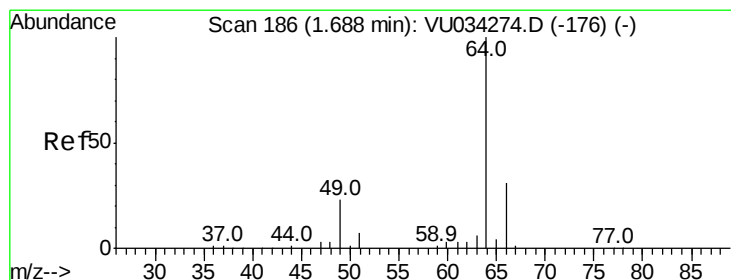
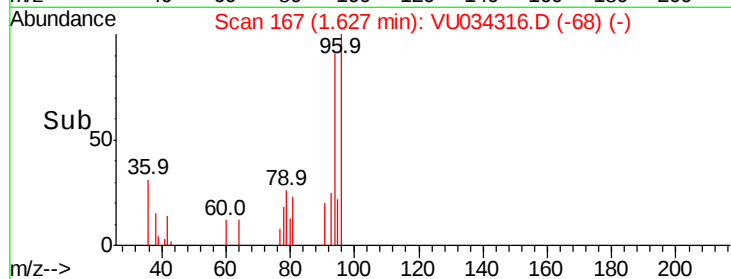
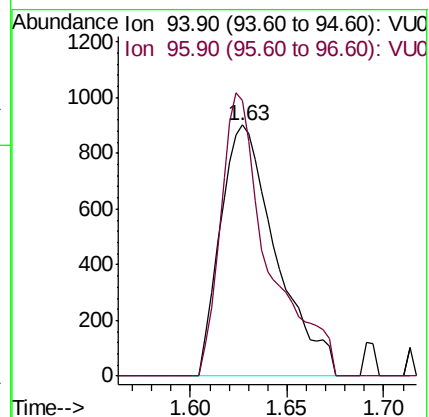
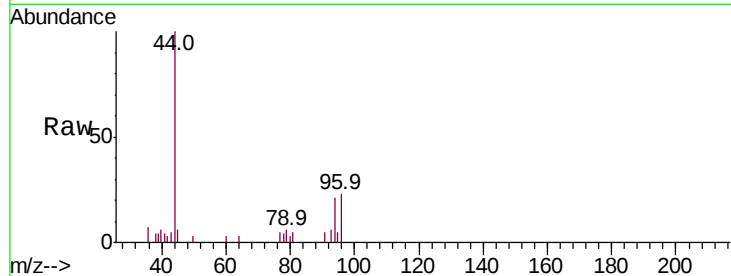
ClientSampleId :

Tot Ion: 94 Resp: 1800

Ion Ratio Lower Upper

94 100

96 109.8 75.7 113.5



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 190

Delta R.T. 0.01 min

Lab File: VU034316.D

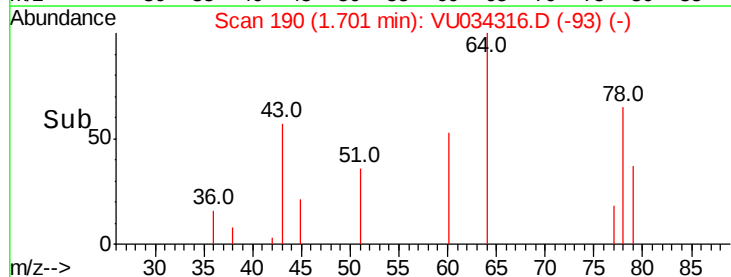
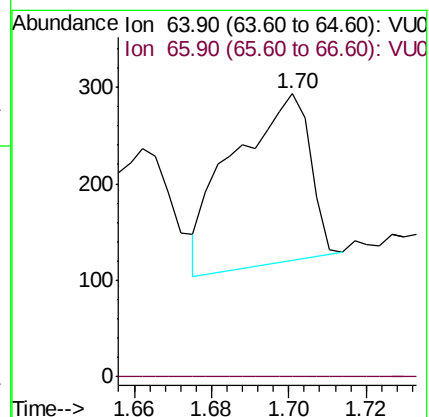
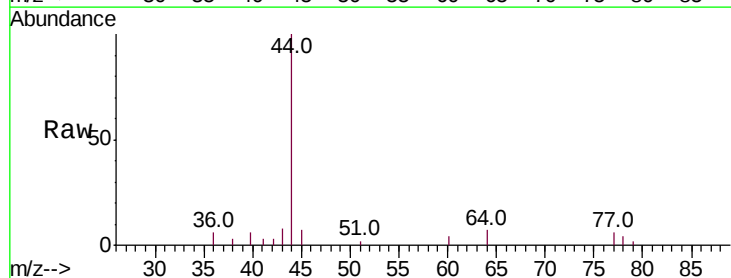
Acq: 06 Sep 2019 09:21

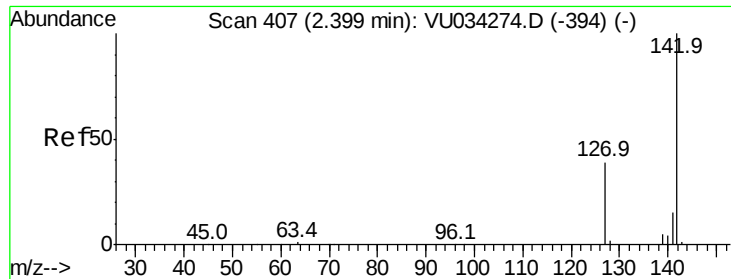
Tgt Ion: 64 Resp: 243

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#

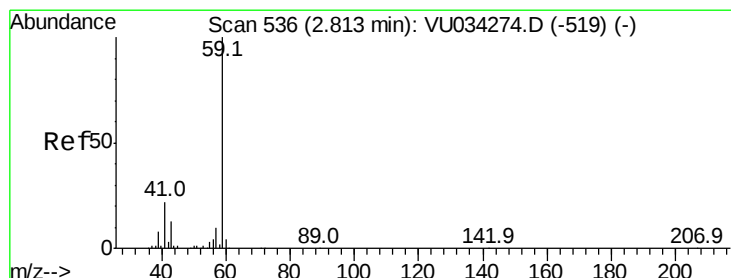
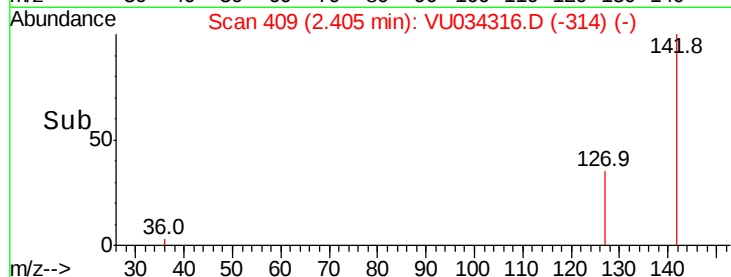
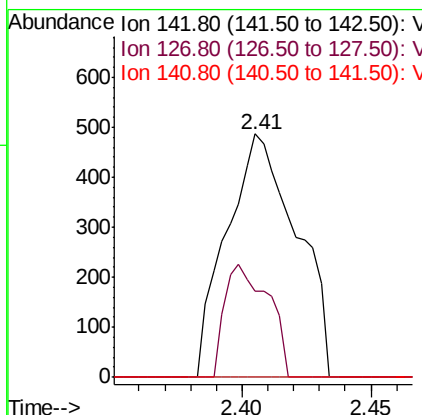
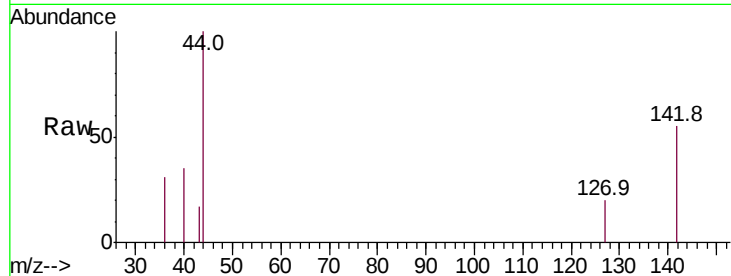




#10
Methvl Iodide
Concen: 4.043 ug/l
RT: 2.41 min Scan# 409
Delta R.T. 0.01 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

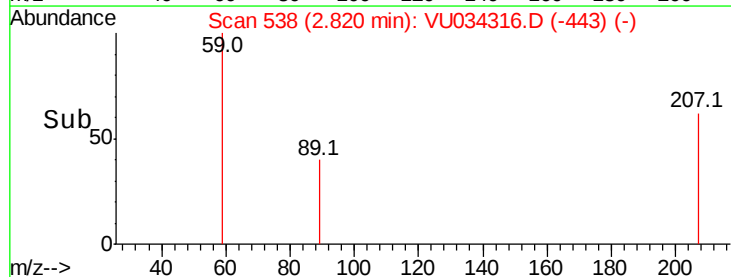
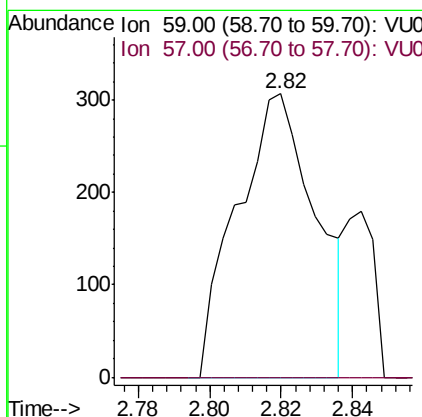
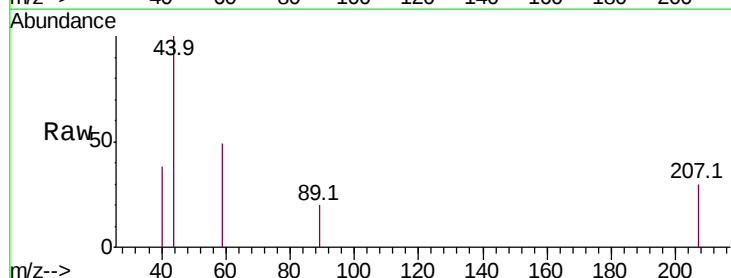
Instrument :
MSVOA_U
ClientSampleId :

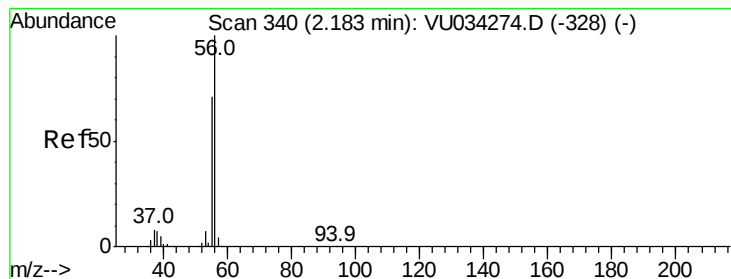
Tot Ion:142 Resp: 920
Ion Ratio Lower Upper
142 100
127 28.9 32.1 48.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.358 ug/l
RT: 2.82 min Scan# 538
Delta R.T. 0.01 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

Tgt Ion: 59 Resp: 466
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#13

Acrolein

Concen: 0.426 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034316.D

Acq: 06 Sep 2019 09:21

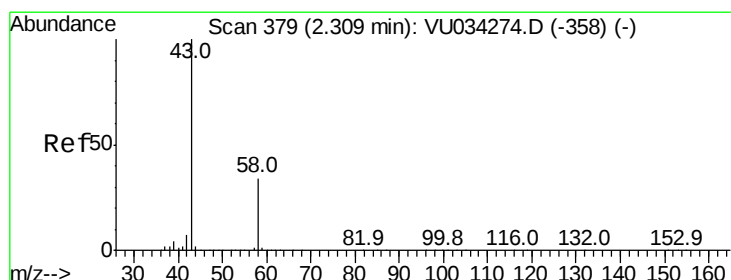
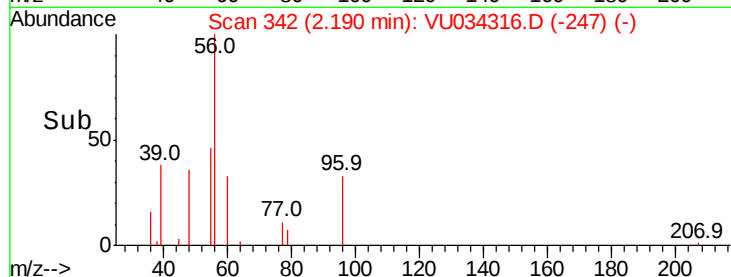
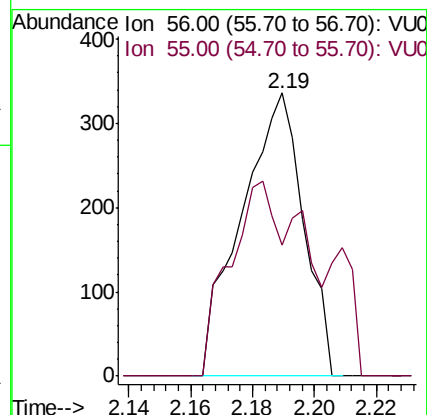
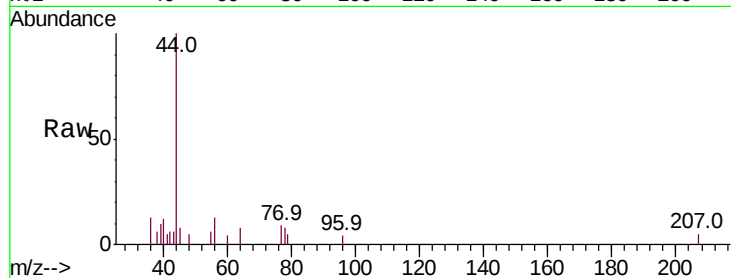
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 467

Ion Ratio Lower Upper

56 100

55 55.2 57.4 86.2#



#16

Acetone

Concen: 0.428 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034316.D

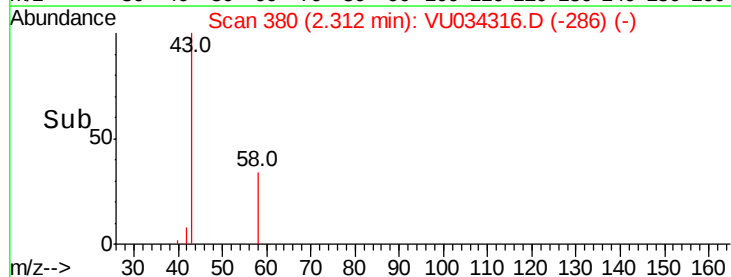
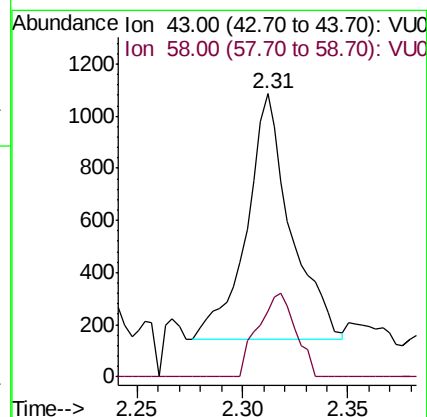
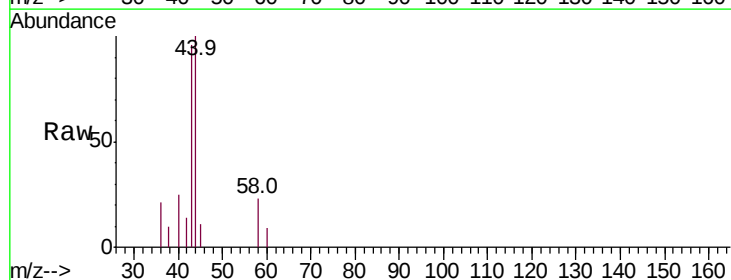
Acq: 06 Sep 2019 09:21

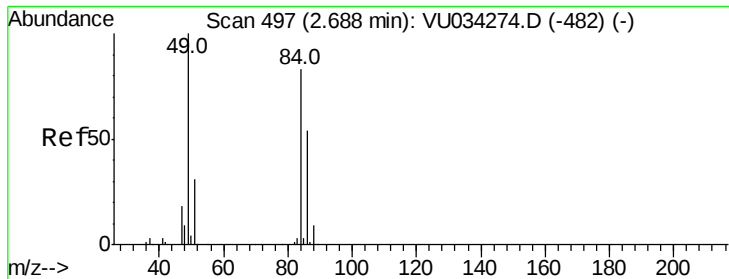
Tgt Ion: 43 Resp: 1367

Ion Ratio Lower Upper

43 100

58 27.0 27.6 41.4#

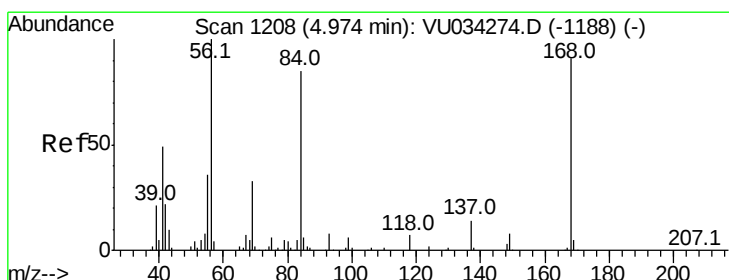
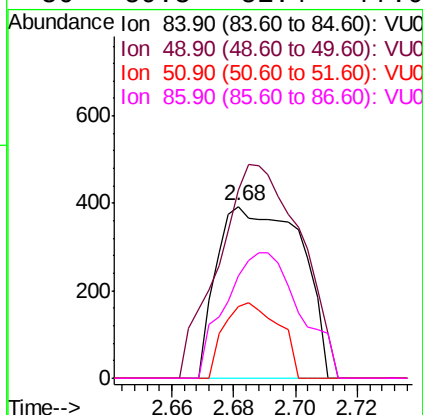
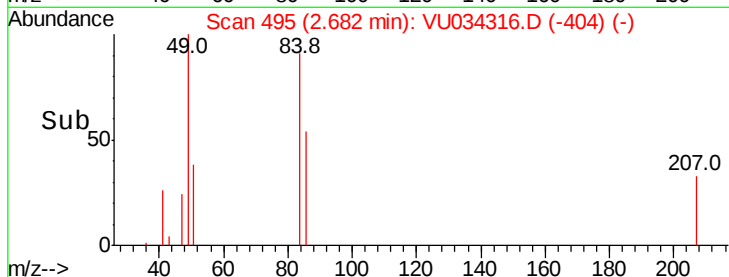
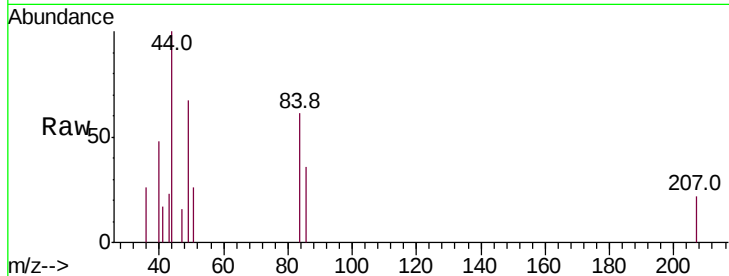




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.68 min Scan# 495
Delta R.T. -0.01 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

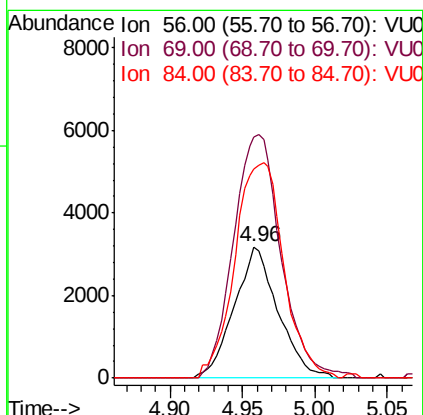
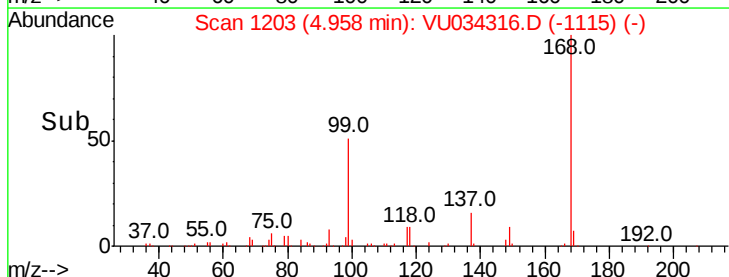
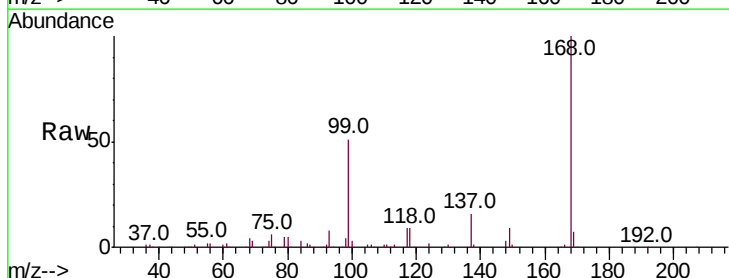
Instrument :
MSVOA_U
ClientSampleId :

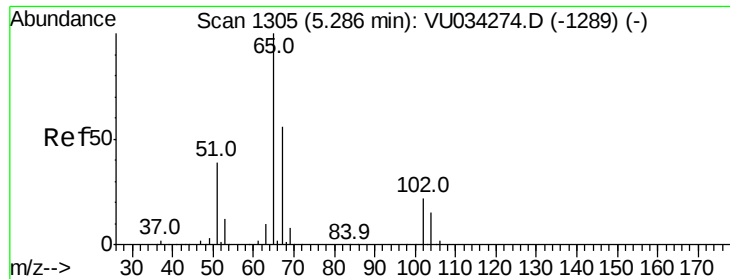
Tot Ion:	84	Resp:	742
Ion	Ratio	Lower	Upper
84	100		
49	109.7	96.0	144.0
51	42.0	30.0	45.0
86	59.3	51.4	77.0



#31
Cyclohexane
Concen: 0.929 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.02 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

Tgt Ion:	56	Resp:	6711
Ion	Ratio	Lower	Upper
56	100		
69	184.3	26.7	40.1#
84	159.7	68.2	102.4#

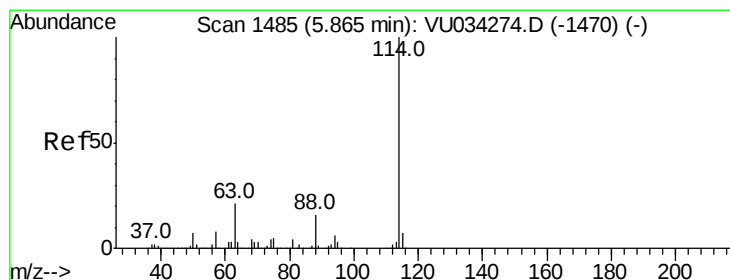
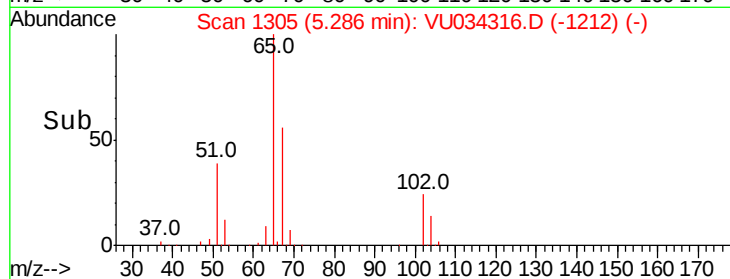
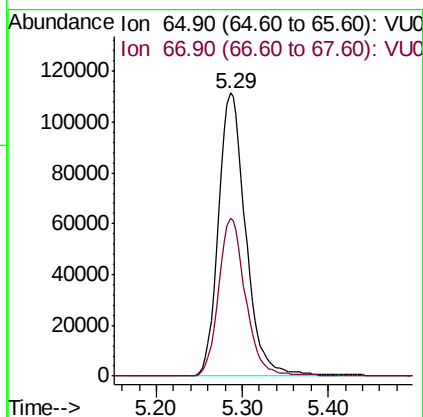
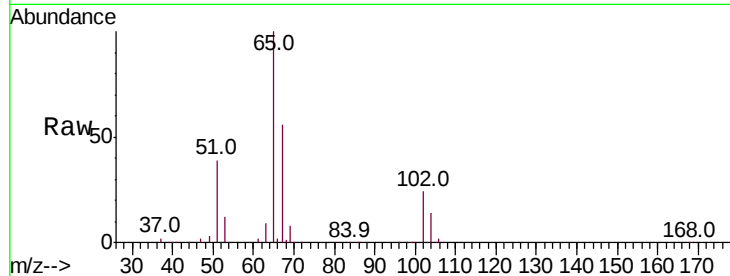




#33
 1,2-Dichloroethane-d4
 Concen: 39.959 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

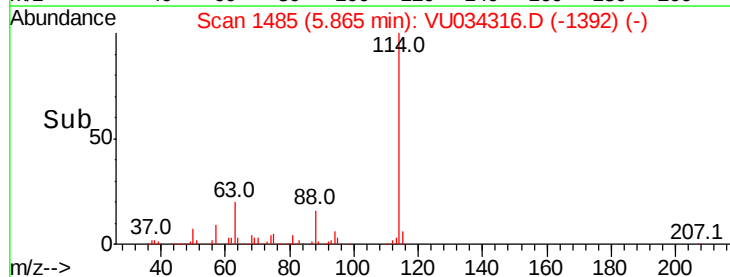
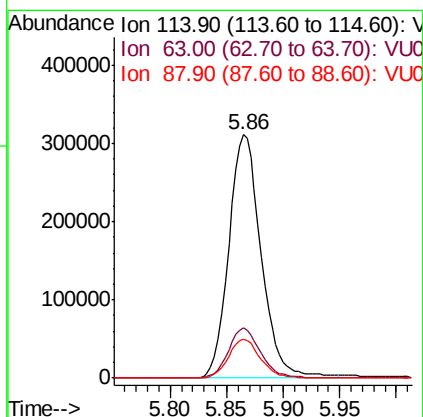
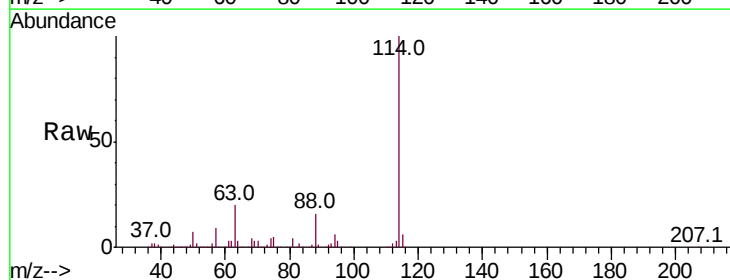
Instrument :
 MSVOA_U
 ClientSampleId :

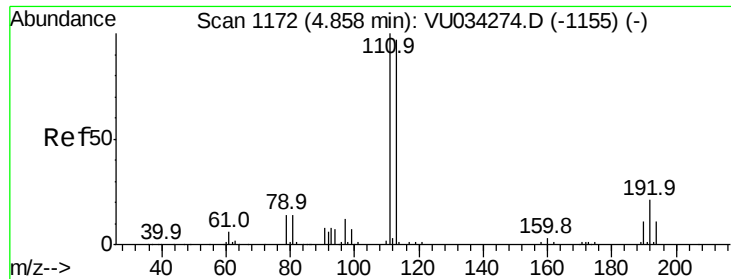
Tot Ion: 65 Resp: 246450
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

Tgt Ion: 114 Resp: 619859
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.4
 88 16.1 0.0 32.4

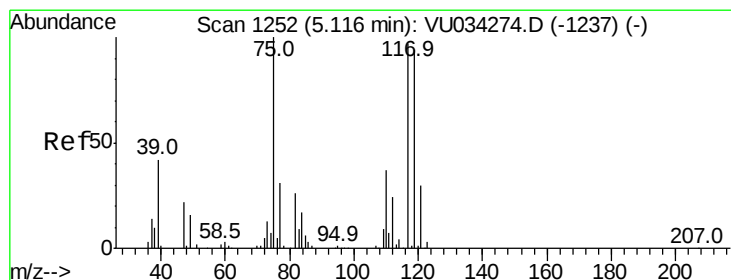
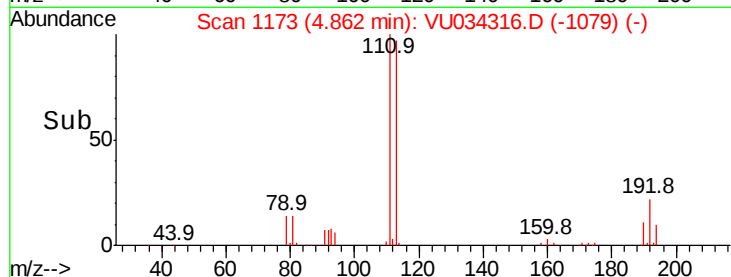
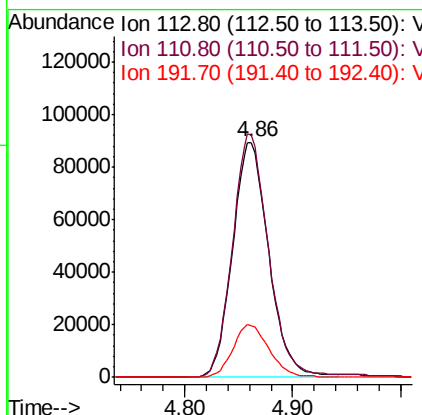
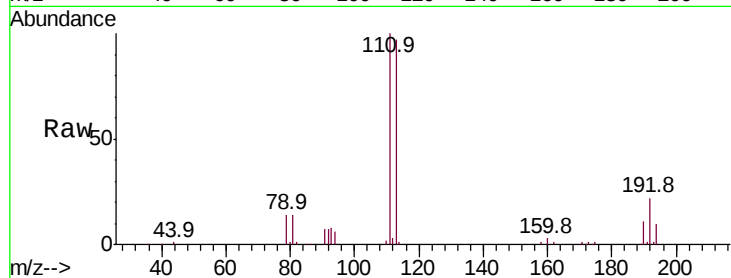




#35
 Dibromofluoromethane
 Concen: 36.272 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

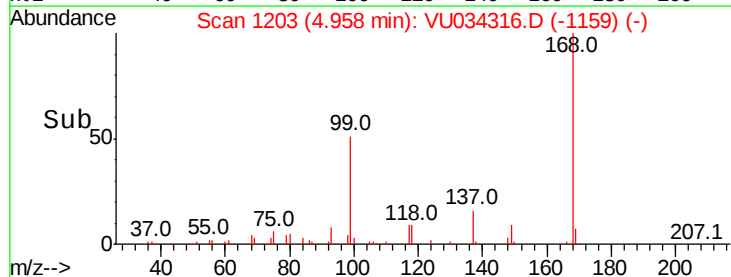
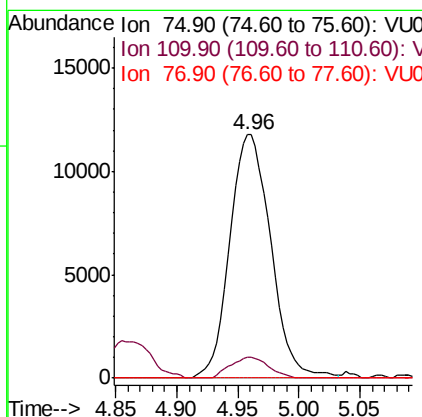
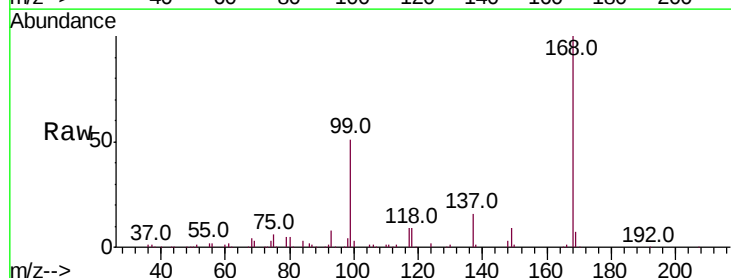
Instrument :
 MSVOA_U
 ClientSampleId :

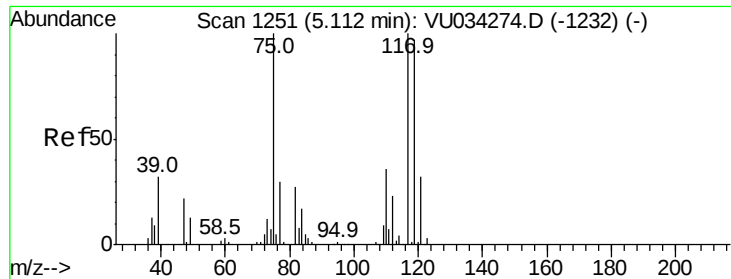
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.5	122.3
192	22.5	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.089 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.16 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.3	54.9#
77	0.0	24.9	37.3#

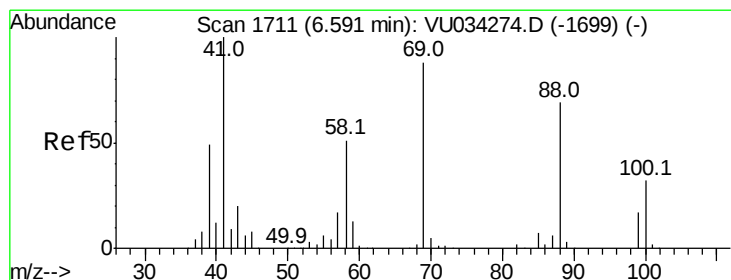
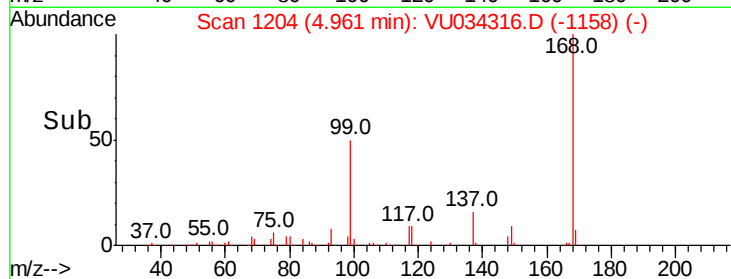
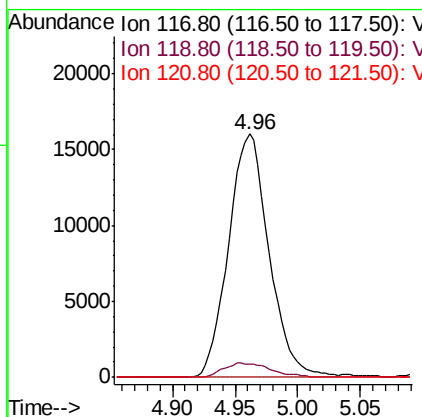
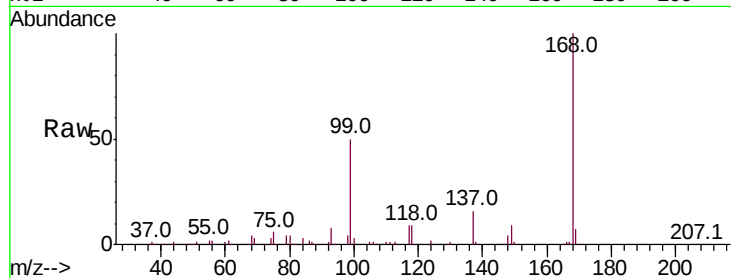




#38
 Carbon Tetrachloride
 Concen: 5.019 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

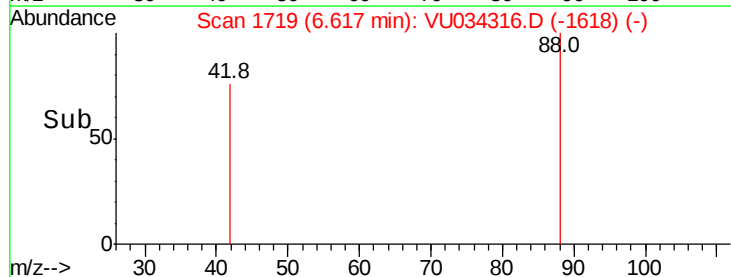
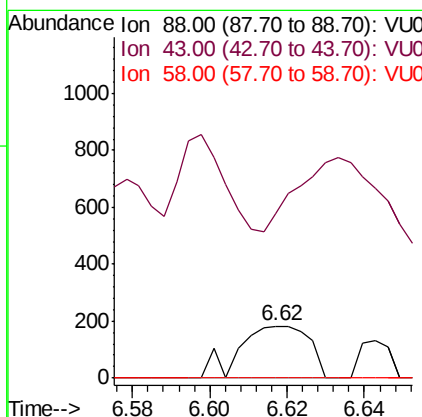
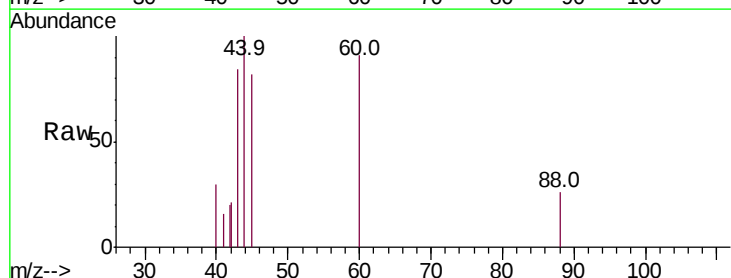
Instrument :
 MSVOA_U
 ClientSampleId :

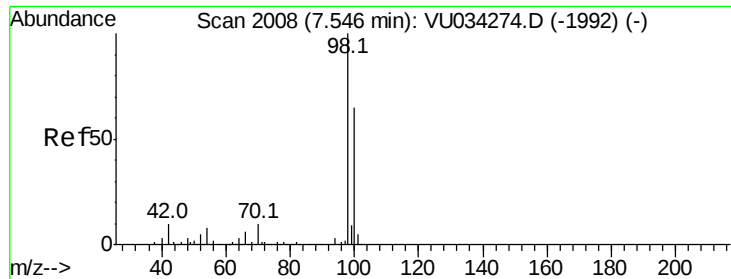
Tot Ion:117 Resp: 36028
 Ion Ratio Lower Upper
 117 100
 119 5.3 77.8 116.6#
 121 0.0 25.2 37.8#



#49
 1,4-Dioxane
 Concen: 1.789 ug/l
 RT: 6.62 min Scan# 1719
 Delta R.T. 0.03 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

Tgt Ion: 88 Resp: 230
 Ion Ratio Lower Upper
 88 100
 43 113.9 23.8 35.6#
 58 0.0 58.4 87.6#

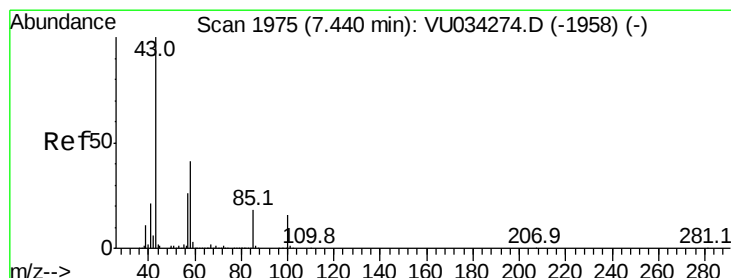
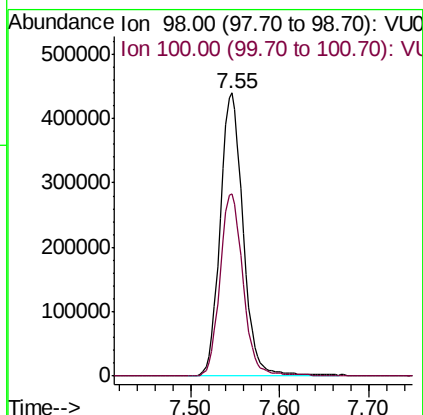
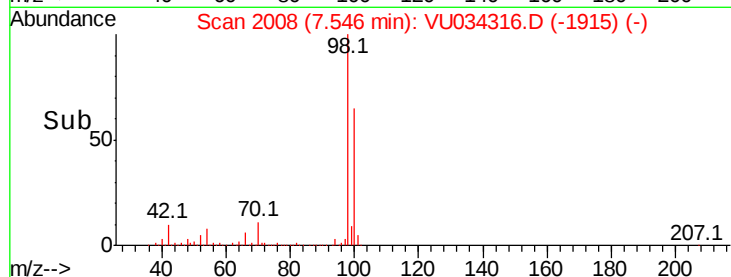
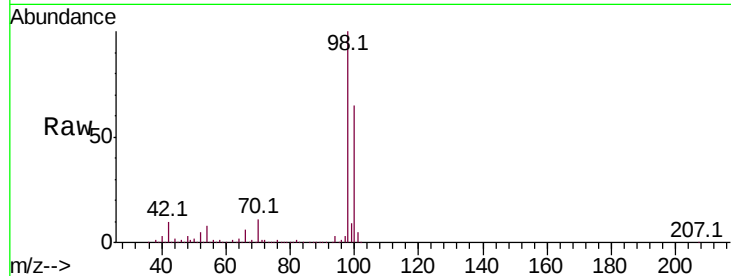




#50
Toluene-d8
Concen: 36.177 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

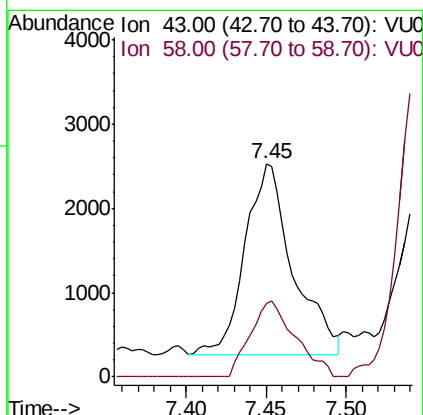
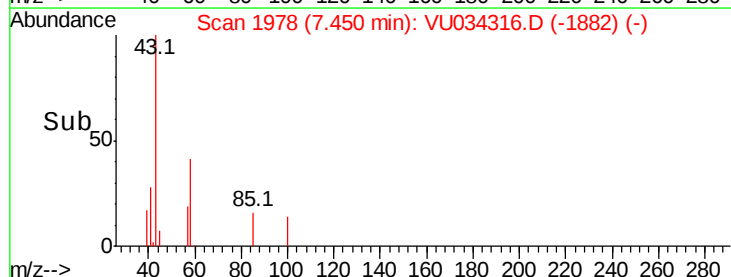
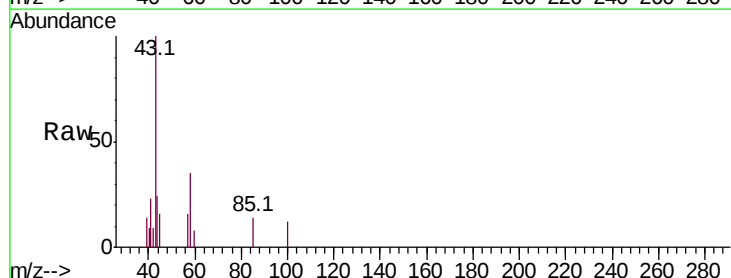
Instrument :
MSVOA_U
ClientSampleId :

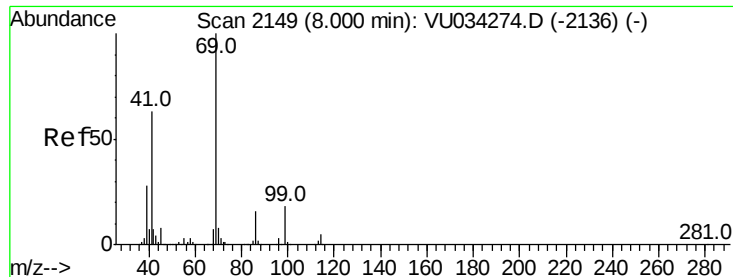
Tot Ion: 98 Resp: 783942
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.545 ug/l
RT: 7.45 min Scan# 1978
Delta R.T. 0.01 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

Tgt Ion: 43 Resp: 4677
Ion Ratio Lower Upper
43 100
58 37.0 33.0 49.4





#56

Ethyl methacrylate

Concen: 3.098 ug/l

RT: 8.03 min Scan# 2159

Delta R.T. 0.03 min

Lab File: VU034316.D

Acq: 06 Sep 2019 09:21

Instrument :
MSVOA_U
ClientSampled :

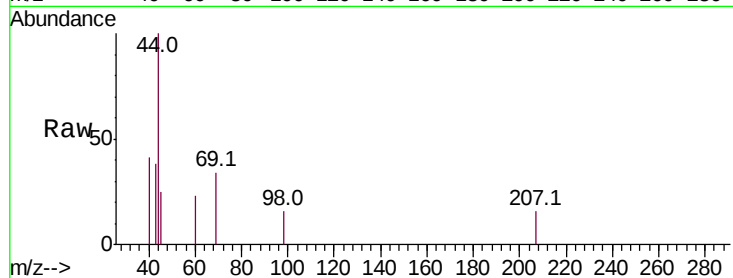
Tot Ion: 69 Resp: 216

Ion Ratio Lower Upper

69 100

41 38.9 49.5 74.3#

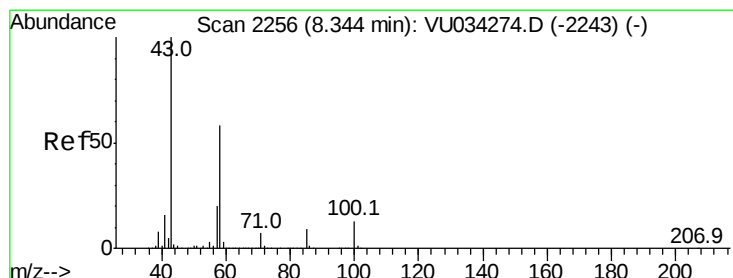
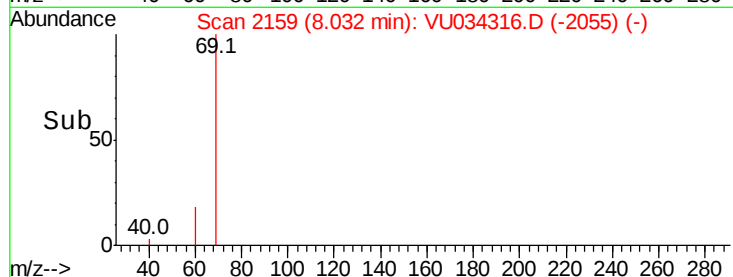
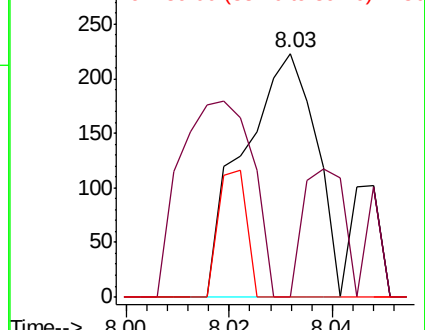
39 0.0 22.5 33.7#



Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#59

2-Hexanone

Concen: 0.694 ug/l

RT: 8.37 min Scan# 2264

Delta R.T. 0.03 min

Lab File: VU034316.D

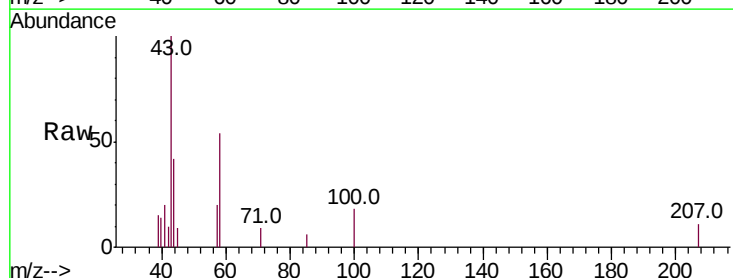
Acq: 06 Sep 2019 09:21

Tgt Ion: 43 Resp: 4450

Ion Ratio Lower Upper

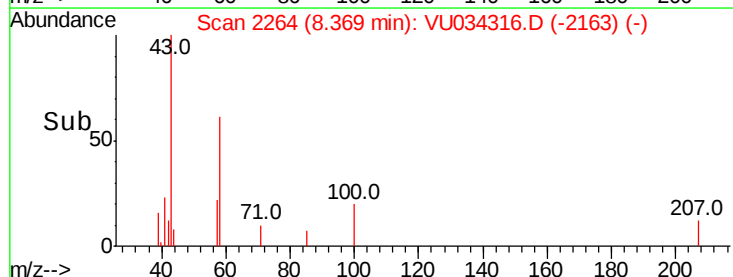
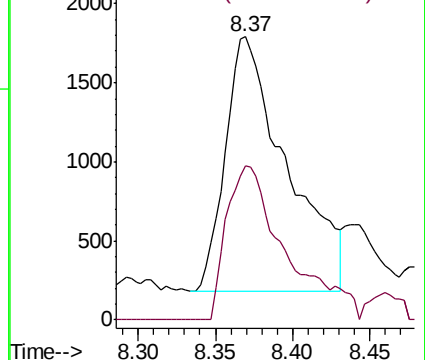
43 100

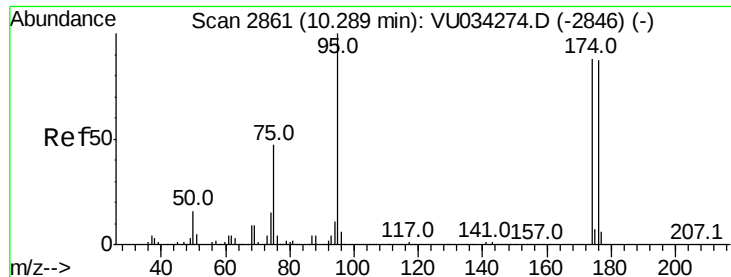
58 58.3 28.8 86.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#62

4-Bromofluorobenzene

Concen: 32.141 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034316.D

Acq: 06 Sep 2019 09:21

Instrument :

MSVOA_U

ClientSampleId :

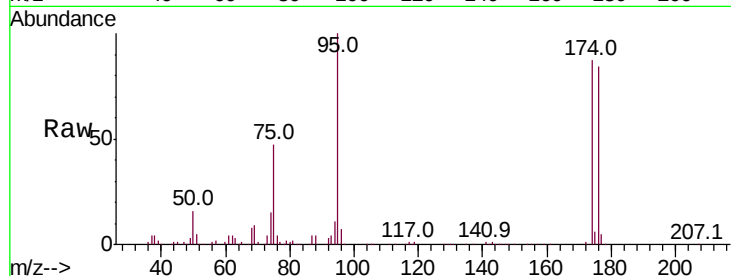
Tot Ion: 95 Resp: 268912

Ion Ratio Lower Upper

95 100

174 88.7 0.0 175.2

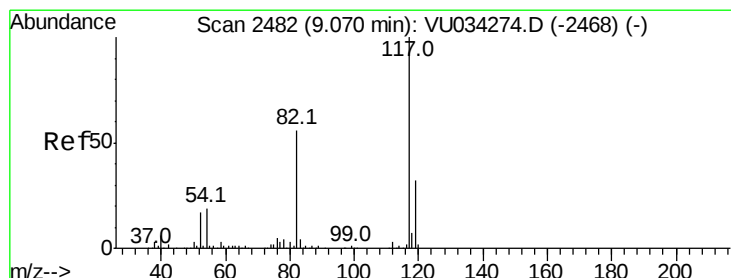
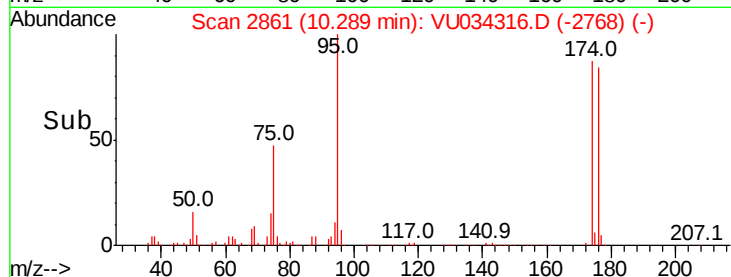
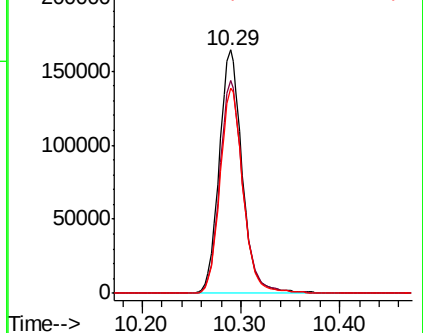
176 85.3 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034316.D (-2768) (-)

Ion 173.80 (173.50 to 174.50): VU034316.D (-2768) (-)

Ion 175.80 (175.50 to 176.50): VU034316.D (-2768) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034316.D

Acq: 06 Sep 2019 09:21

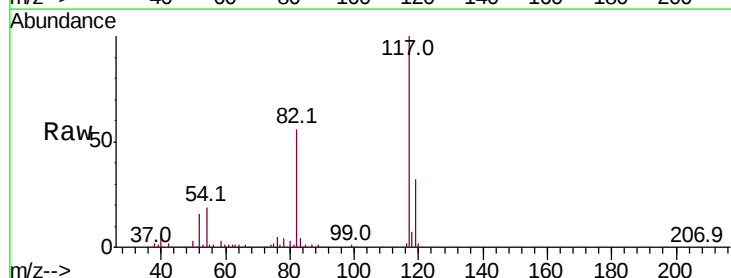
Tgt Ion: 117 Resp: 593052

Ion Ratio Lower Upper

117 100

82 56.0 44.6 67.0

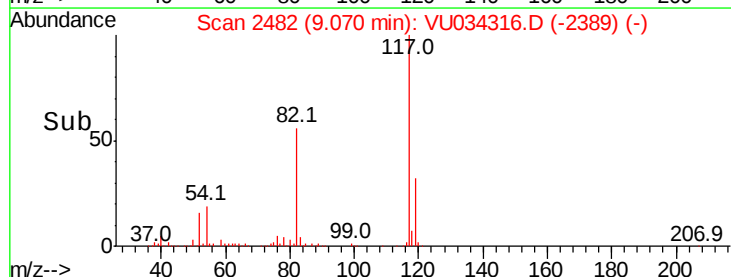
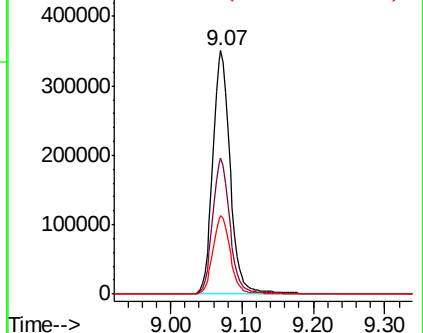
119 32.4 25.9 38.9

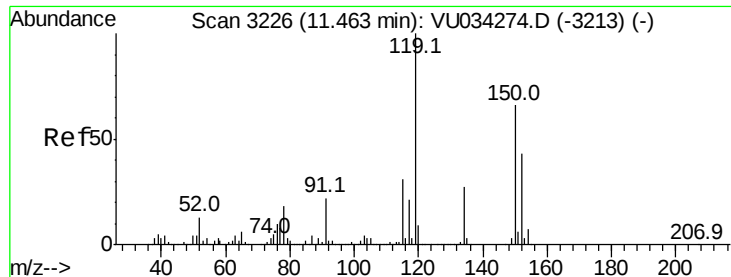


Abundance Ion 116.90 (116.60 to 117.60): VU034316.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU034316.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU034316.D (-2389) (-)



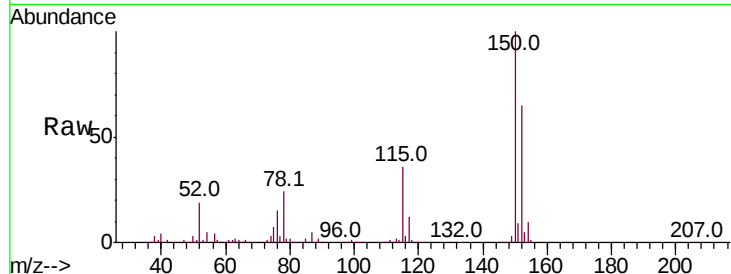


#72

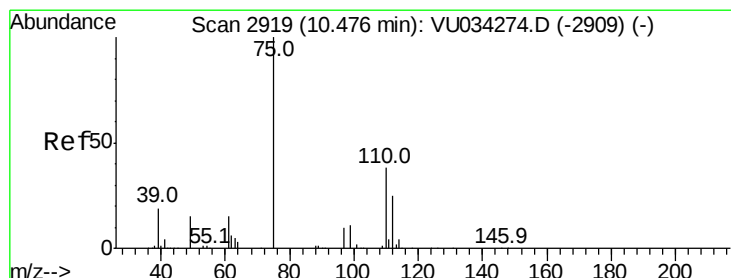
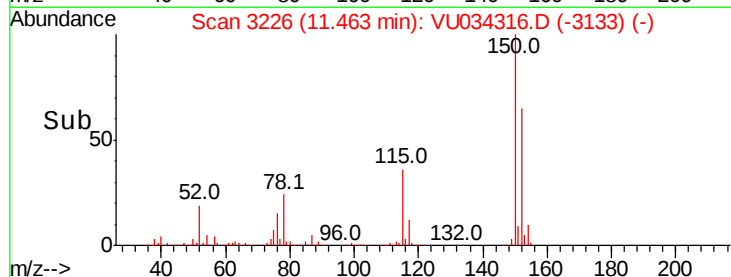
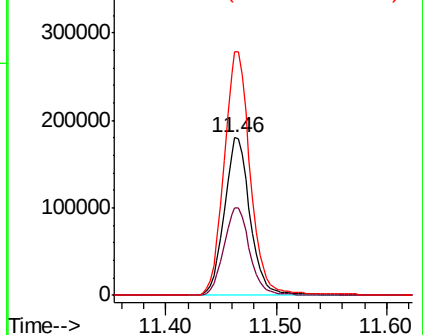
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.6	39.1	117.3
150	156.3	0.0	345.4



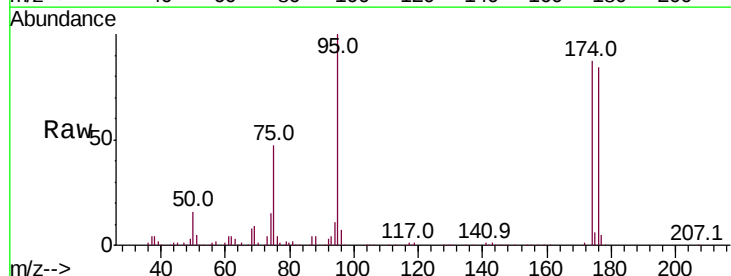
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



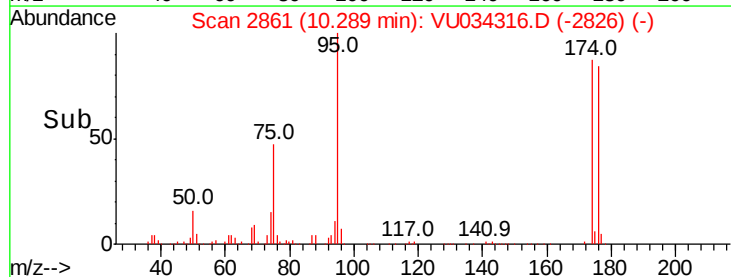
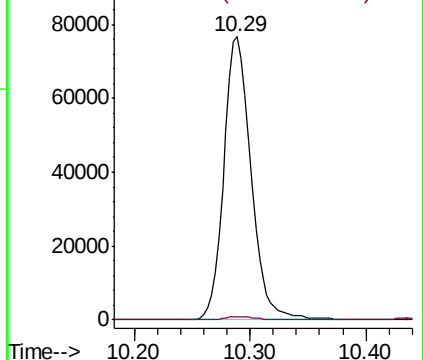
#76

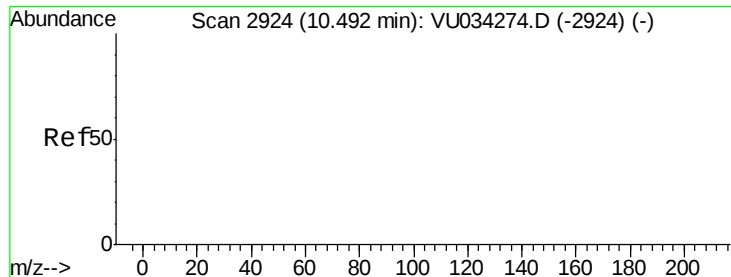
1,2,3-Trichloropropane
Concen: 19.636 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	20.8	62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0

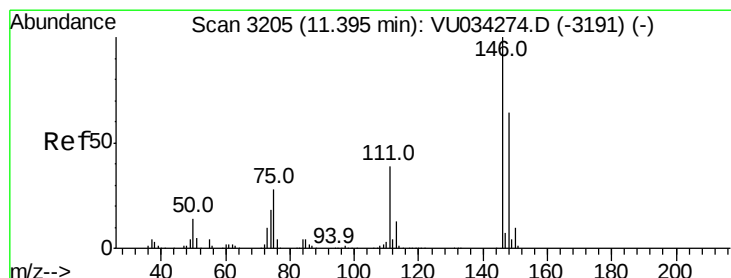
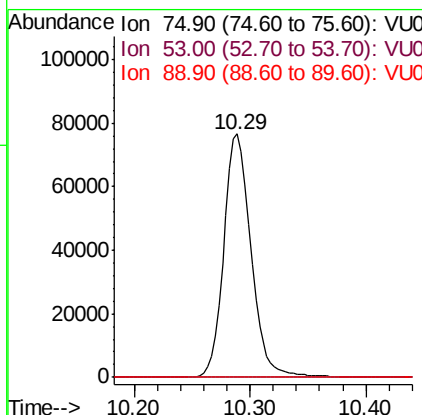
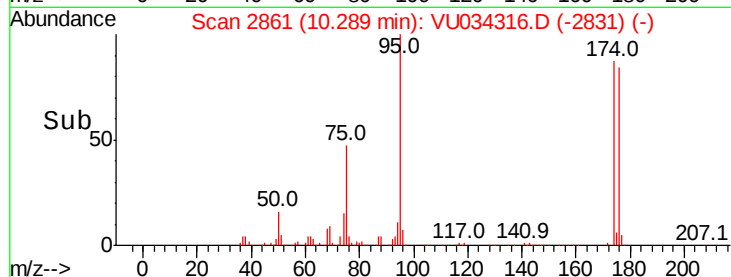
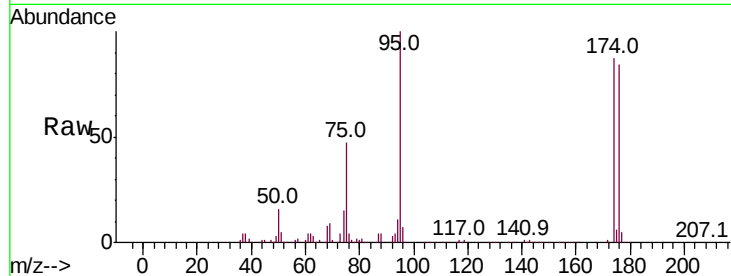




#81
trans-1,4-Dichloro-2-butene
Concen: 66.036 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.20 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

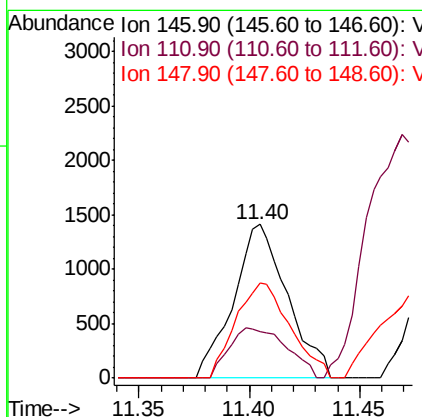
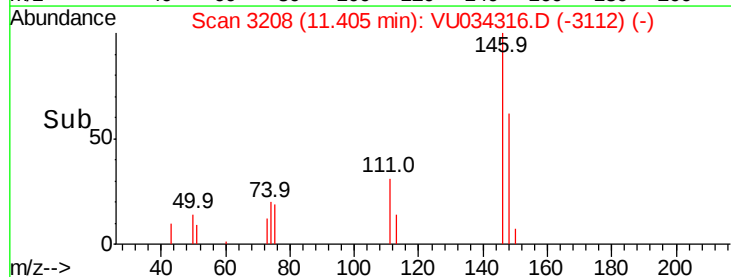
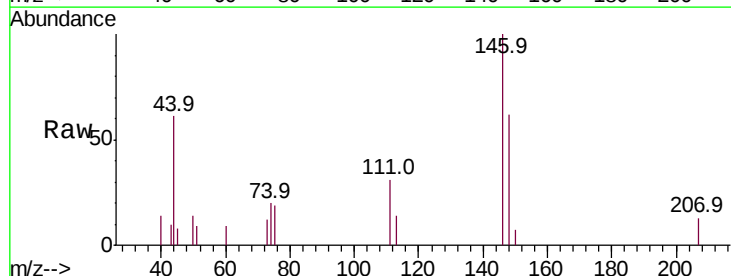
Instrument :
MSVOA_U
ClientSampled :

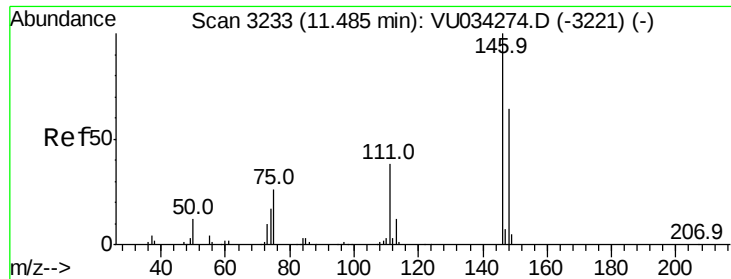
Tot Ion: 75 Resp: 125198
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#87
1,3-Dichlorobenzene
Concen: 0.247 ug/l
RT: 11.40 min Scan# 3208
Delta R.T. 0.01 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

Tgt Ion: 146 Resp: 2399
Ion Ratio Lower Upper
146 100
111 34.9 19.5 58.5
148 62.4 32.1 96.3

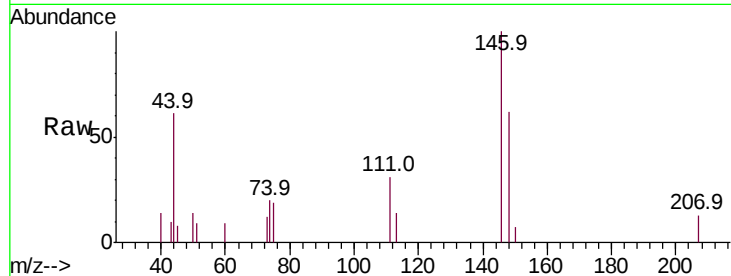




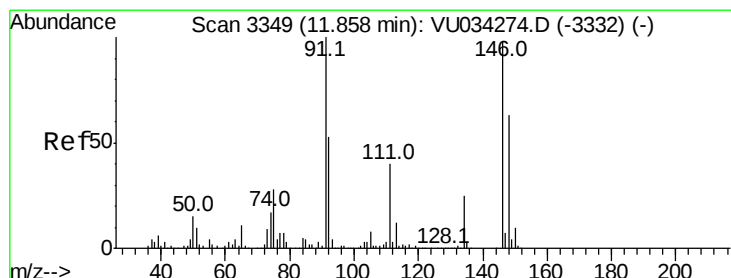
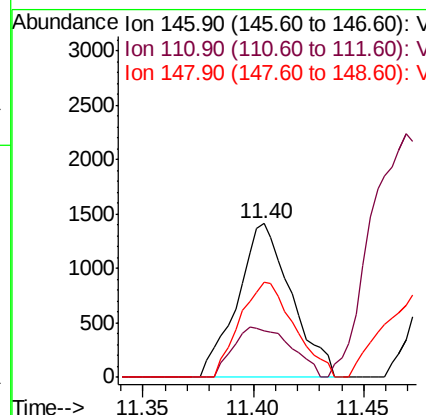
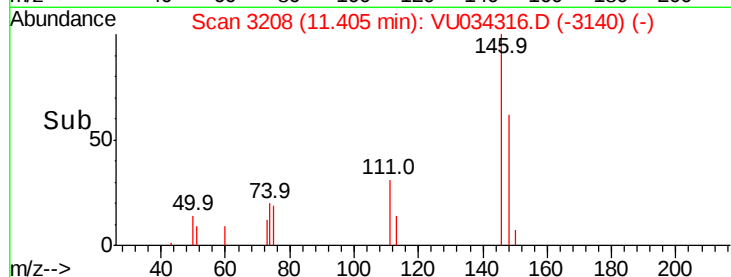
#88
 1,4-Dichlorobenzene
 Concen: 0.237 ug/l
 RT: 11.40 min Scan# 3208
 Delta R.T. -0.08 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 2399
 Ion Ratio Lower Upper
 146 100
 111 34.9 19.1 57.3
 148 62.4 32.0 96.0

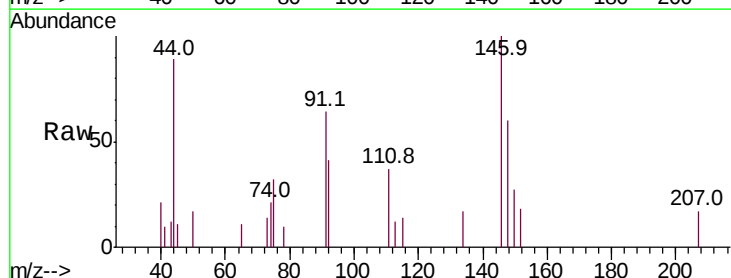


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

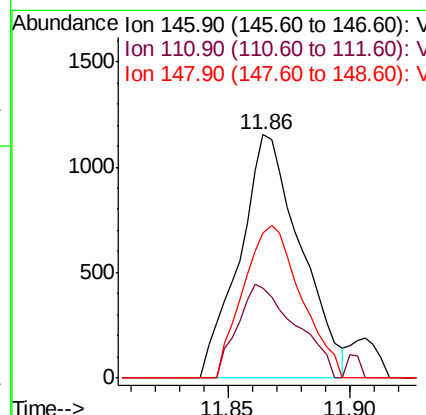
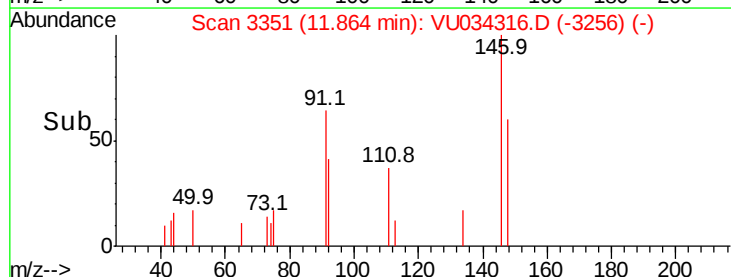


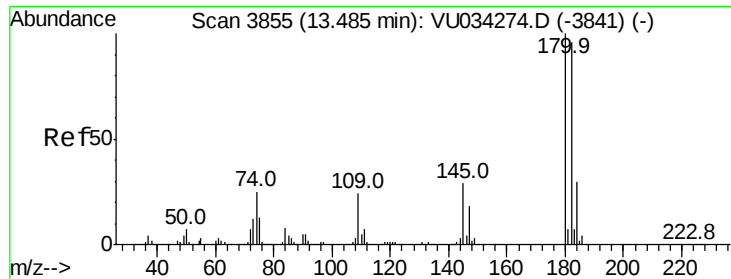
#91
 1,2-Dichlorobenzene
 Concen: 0.210 ug/l
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.01 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

Tgt Ion:146 Resp: 2006
 Ion Ratio Lower Upper
 146 100
 111 36.4 20.0 60.0
 148 59.2 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

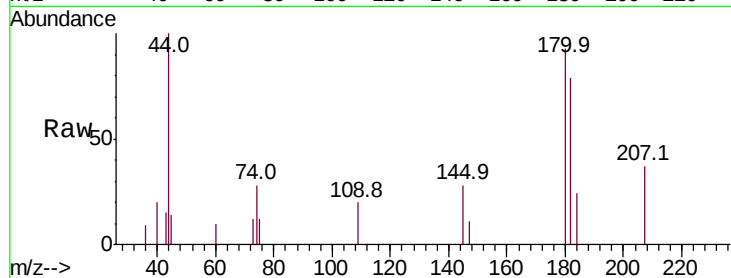




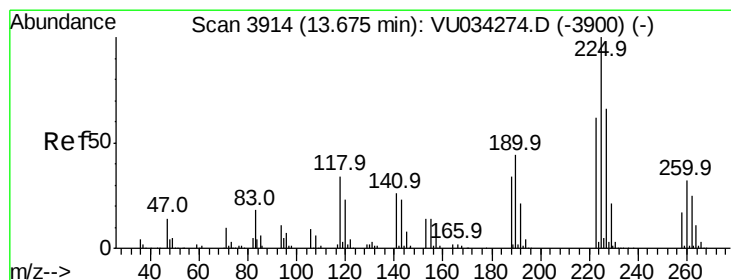
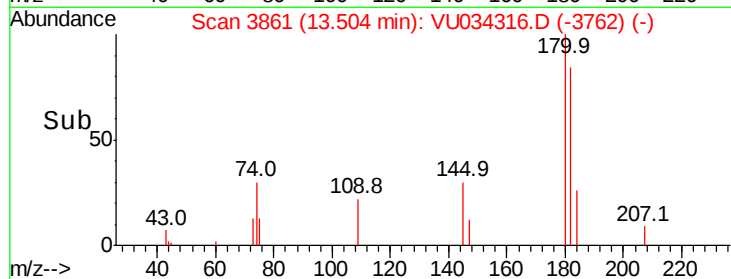
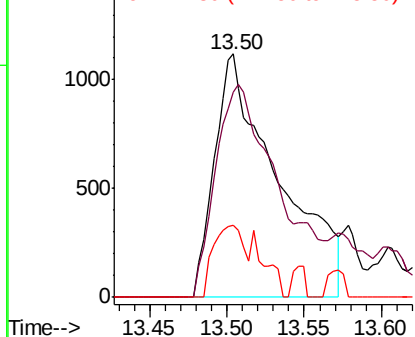
#93
 1,2,4-Trichlorobenzene
 Concen: 3.884 ug/l
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.02 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

Instrument :
 MSVOA_U
 ClientSampleID :

Tot Ion:180 Resp: 3209
 Ion Ratio Lower Upper
 180 100
 182 87.6 47.9 143.8
 145 14.3 14.4 43.0#

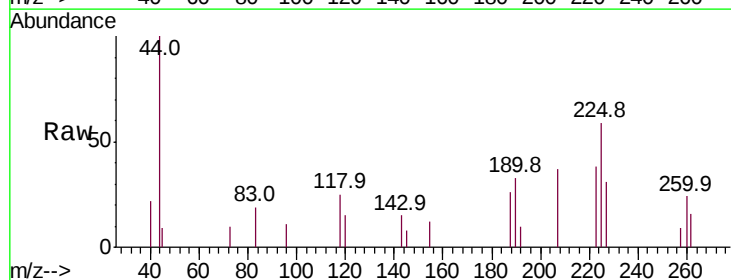


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

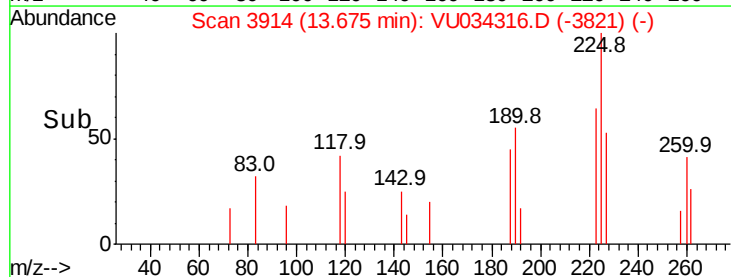
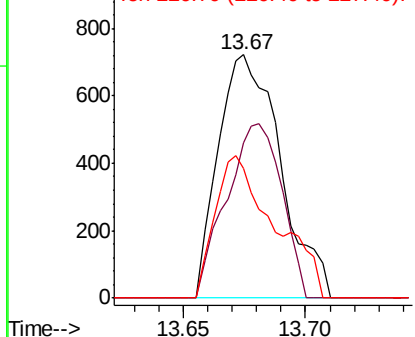


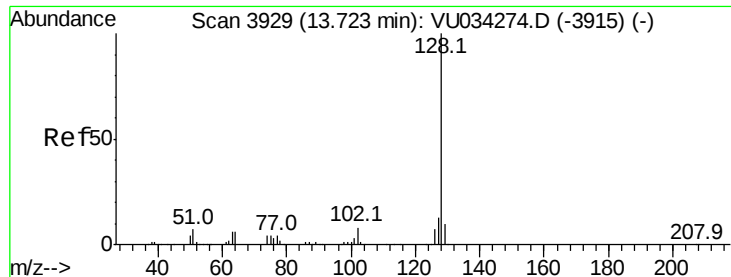
#94
 Hexachlorobutadiene
 Concen: 0.383 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. -0.00 min
 Lab File: VU034316.D
 Acq: 06 Sep 2019 09:21

Tgt Ion:225 Resp: 1276
 Ion Ratio Lower Upper
 225 100
 223 63.6 31.6 94.7
 227 56.1 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

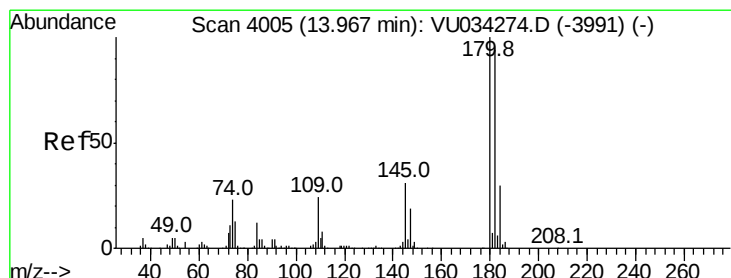
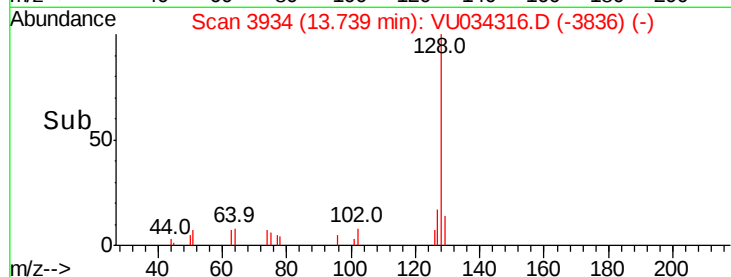
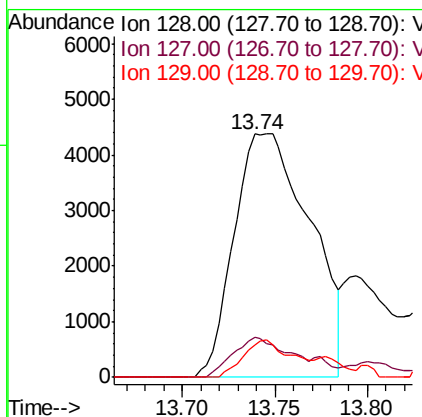
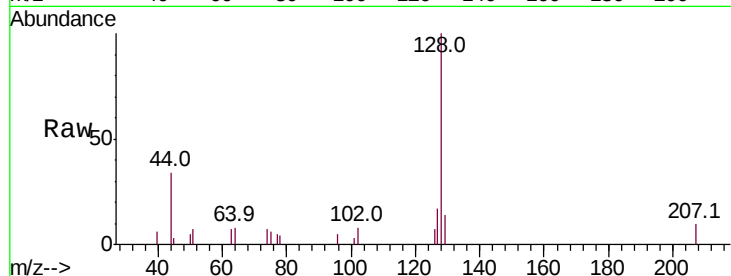




#95
Naphthalene
Concen: 4.557 ug/l
RT: 13.74 min Scan# 3934
Delta R.T. 0.02 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 12499
Ion Ratio Lower Upper
128 100
127 11.9 10.6 15.8
129 9.6 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 2.963 ug/l
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU034316.D
Acq: 06 Sep 2019 09:21

Tgt Ion:180 Resp: 2288
Ion Ratio Lower Upper
180 100
182 184.3 48.4 145.0#
145 20.4 15.4 46.4

