

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080319\
 Data File : VU033586.D
 Acq On : 03 Aug 2019 12:27
 Operator : JC/SP
 Sample : VIBLK40
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK40

Quant Time: Aug 05 06:54:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 06:49:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	332250	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	320990	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	154109	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	109702	47.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.02%
7) Chloroethane-d5	1.67	69	98829	40.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.30%
11) 1,1-Dichloroethene-d2	2.26	63	150203	33.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.82%
21) 2-Butanone-d5	4.15	46	171032	93.63	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.63%
24) Chloroform-d	4.62	84	196223	45.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.26%
26) 1,2-Dichloroethane-d4	5.29	65	126859	46.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.56%
32) Benzene-d6	5.32	84	403642	48.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.10%
36) 1,2-Dichloropropane-d6	6.31	67	129127	48.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.00%
41) Toluene-d8	7.55	98	366375	46.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.98%
43) trans-1,3-Dichloropropene-	7.83	79	62003	47.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.42%
47) 2-Hexanone-d5	8.30	63	124498	96.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.16%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	188729	45.33	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.66%
64) 1,2-Dichlorobenzene-d4	11.85	152	145851	48.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.80%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2465	1.041 ug/L #	52
12) 1,1-Dichloroethene	2.26	96	2268	1.006 ug/L #	1
13) Acetone	2.31	43	1450	0.804 ug/L	89
14) Carbon disulfide	2.46	76	11679	1.748 ug/L	96
17) trans-1,2-Dichloroethene	2.97	96	1815	0.770 ug/L	94
40) 4-Methyl-2-pentanone	7.45	43	4293	1.112 ug/L #	89
42) Toluene	7.62	91	4125	0.393 ug/L	93
46) Tetrachloroethene	8.21	164	1206	0.587 ug/L	86
48) 2-Hexanone	8.35	43	6623	2.128 ug/L #	85
51) Chlorobenzene	9.10	112	4145	0.603 ug/L	99
52) Ethylbenzene	9.23	91	5030	0.450 ug/L	92
53) m,p-Xylene	9.36	106	2205	0.518 ug/L	64
55) Styrene	9.78	104	3865	0.542 ug/L	100
56) Isopropylbenzene	10.15	105	5182	0.477 ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	2178	0.602 ug/L	96
62) 1,3-Dichlorobenzene	11.40	146	6830	1.353 ug/L	93
63) 1,4-Dichlorobenzene	11.49	146	8518	1.642 ug/L	97

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Quant Title : VOC Analysis
QLast Update : Mon Aug 05 06:49:51 2019
Response via : Initial Calibration

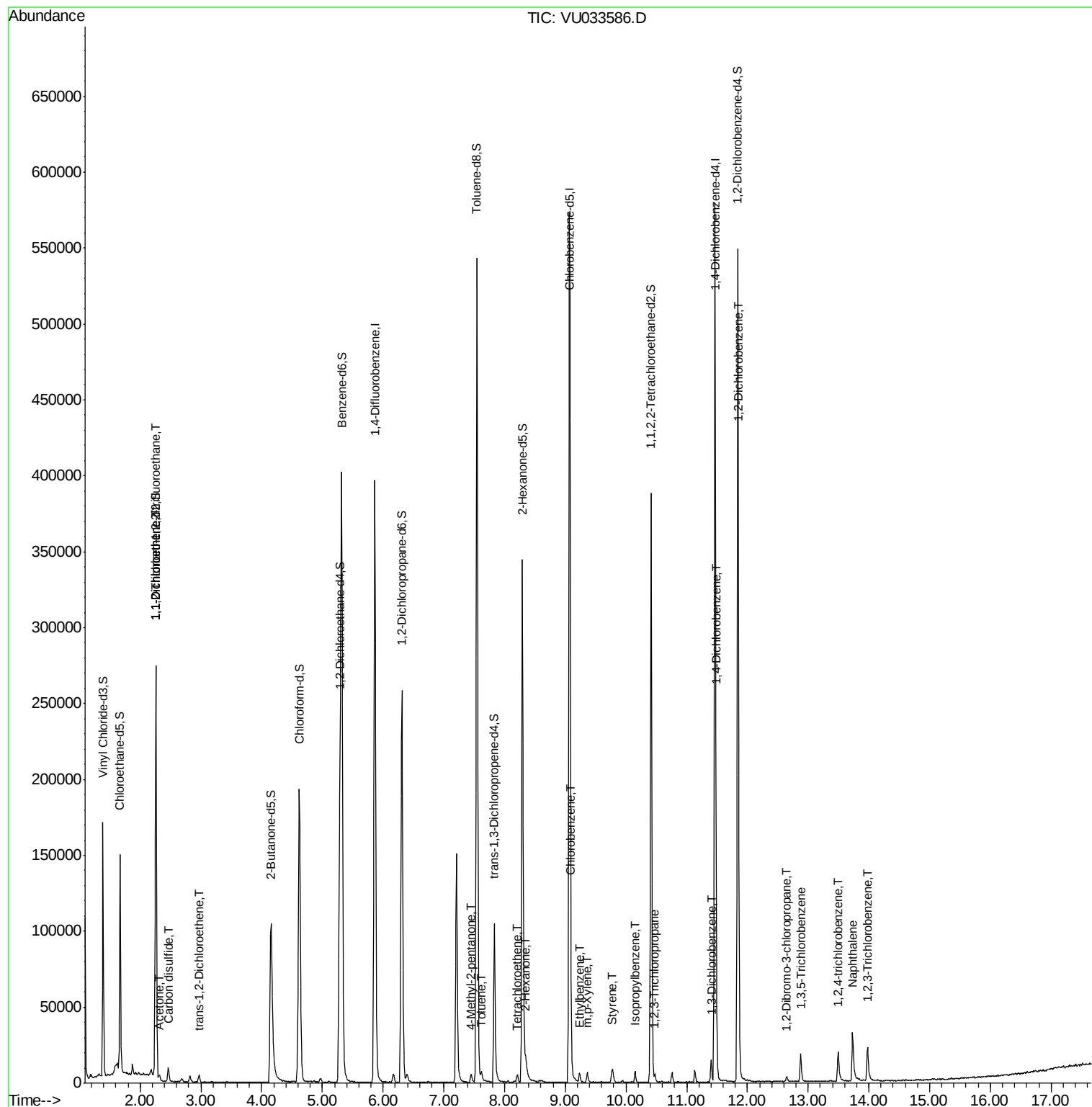
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.86	146	5965	1.178	ug/L #	86
66) 1,2-Dibromo-3-chloropropan	12.65	75	1211	1.240	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	7216	1.855	ug/L	96
68) 1,2,4-trichlorobenzene	13.50	180	8527	2.611	ug/L	100
69) Naphthalene	13.73	128	32964	3.478	ug/L	97
70) 1,2,3-Trichlorobenzene	13.98	180	9289	2.657	ug/L	96

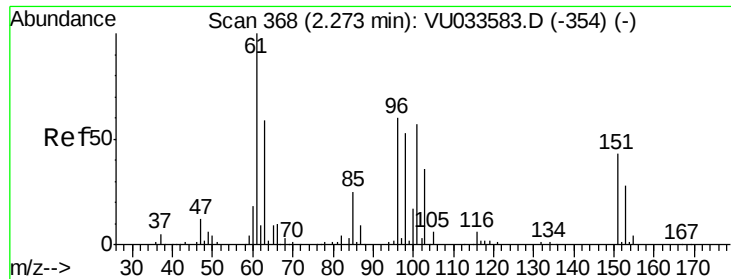
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.041 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.02 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VIBLK40

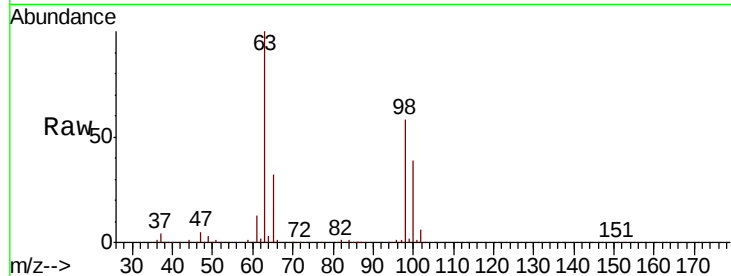
Tgt Ion: 101 Resp: 2465

Ion Ratio Lower Upper

101 100

85 19.7 35.5 53.3#

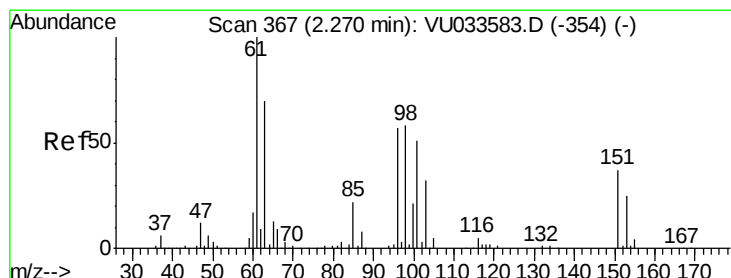
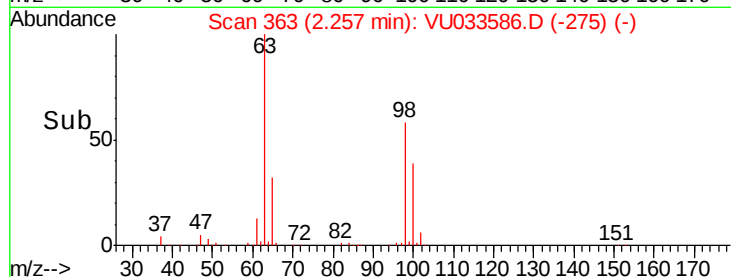
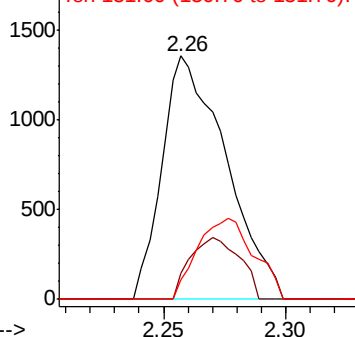
151 29.2 59.9 89.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.006 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

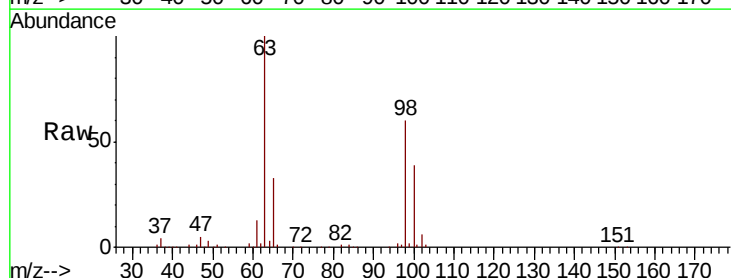
Tgt Ion: 96 Resp: 2268

Ion Ratio Lower Upper

96 100

61 834.0 122.8 228.0#

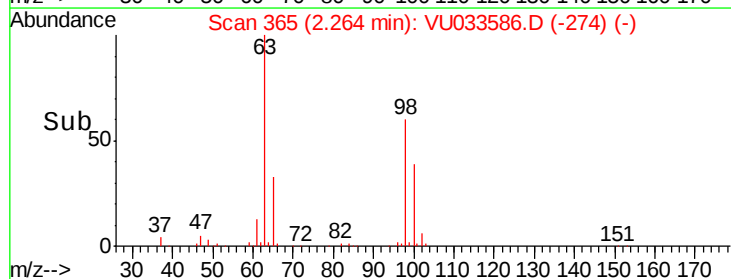
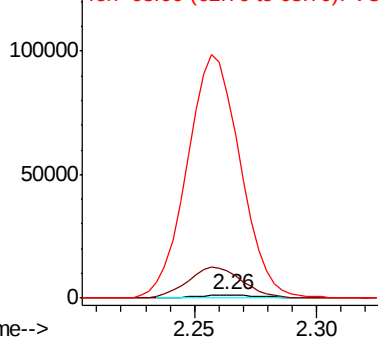
63 6395.1 87.1 161.7#

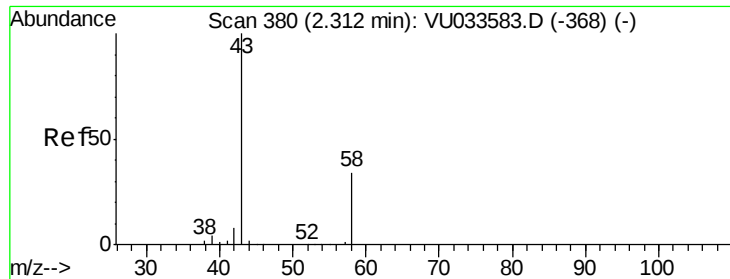


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.804 ug/L

RT: 2.31 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

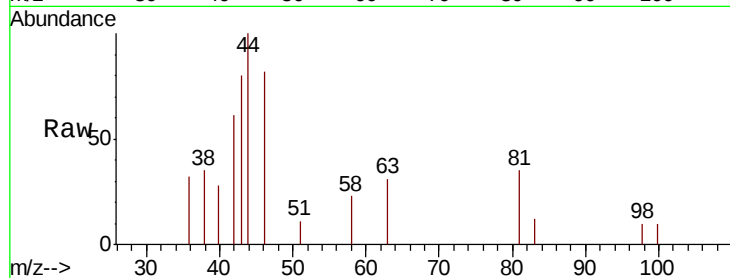
VIBLK40

Tgt Ion: 43 Resp: 1450

Ion Ratio Lower Upper

43 100

58 27.0 0.0 66.0



Abundance Ion 43.00 (42.70 to 43.70): VU033586.D (-287) (-)

Ion 58.00 (57.70 to 58.70): VU033586.D (-287) (-)

2.31

800

600

400

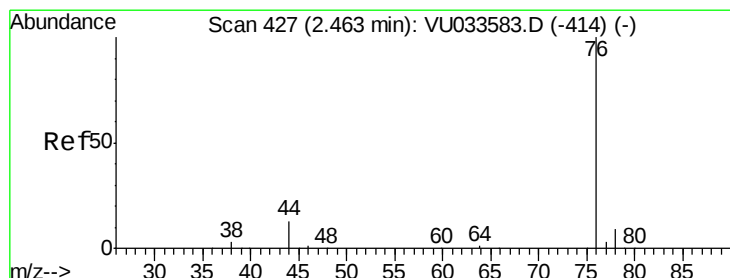
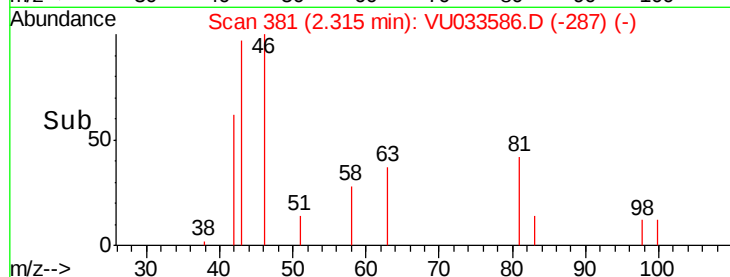
200

0

2.30

2.35

Time-->



#14

Carbon disulfide

Concen: 1.748 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033586.D

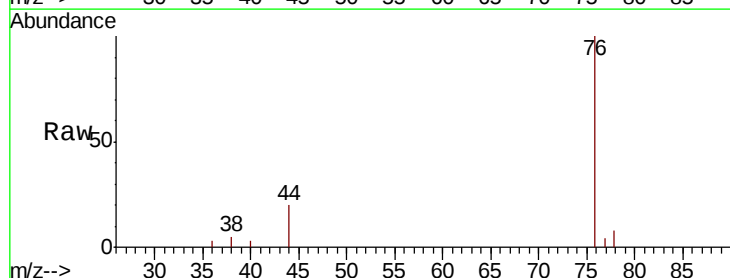
Acq: 03 Aug 2019 12:27

Tgt Ion: 76 Resp: 11679

Ion Ratio Lower Upper

76 100

78 8.0 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VU033586.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU033586.D (-334) (-)

2.46

8000

6000

4000

2000

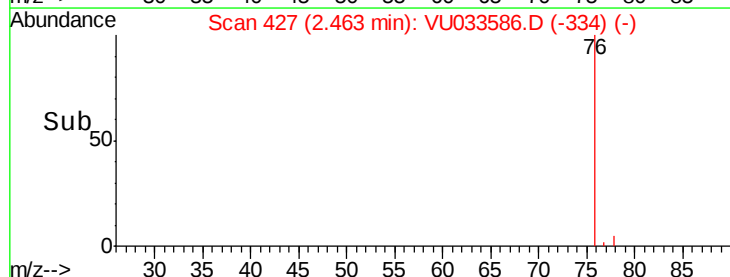
0

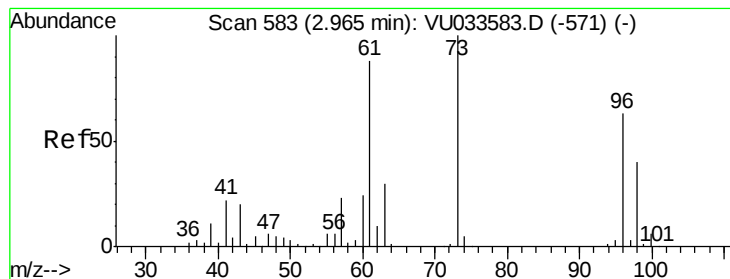
2.40

2.45

2.50

Time-->





#17

trans-1,2-Dichloroethene

Concen: 0.770 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VIBLK40

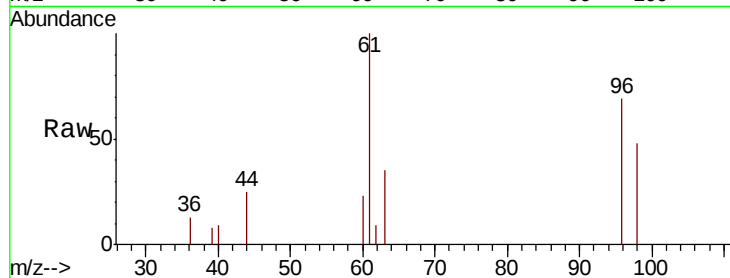
Tgt Ion: 96 Resp: 1815

Ion Ratio Lower Upper

96 100

61 145.3 98.1 182.3

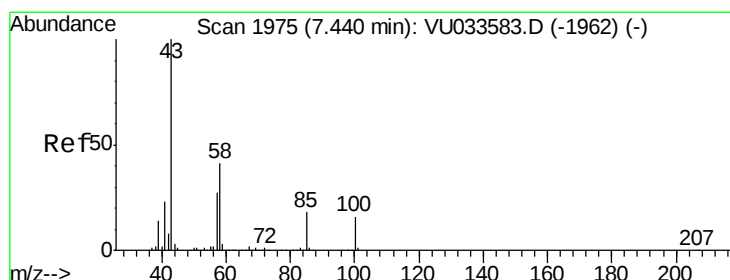
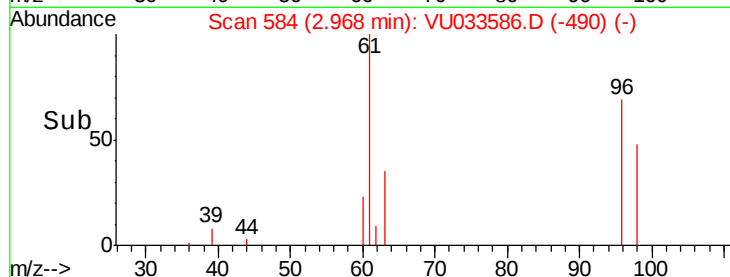
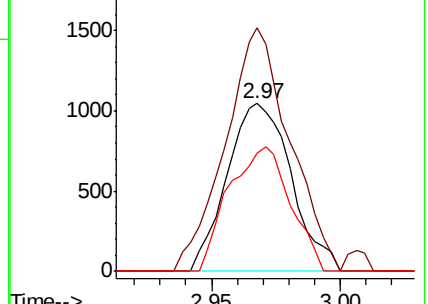
98 70.3 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU033586.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033586.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033586.D (-490) (-)



#40

4-Methyl-2-pentanone

Concen: 1.112 ug/L

RT: 7.45 min Scan# 1978

Delta R.T. 0.01 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

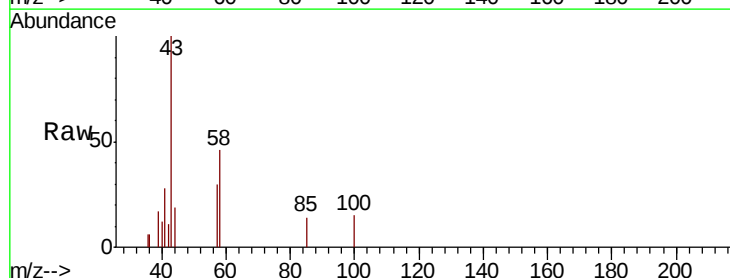
Tgt Ion: 43 Resp: 4293

Ion Ratio Lower Upper

43 100

58 34.4 33.0 49.4

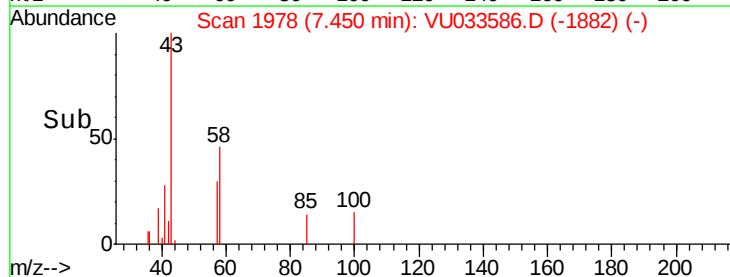
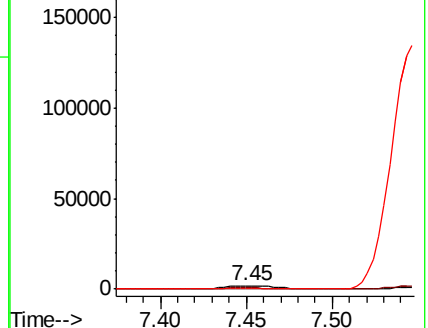
100 10.6 12.4 18.6#

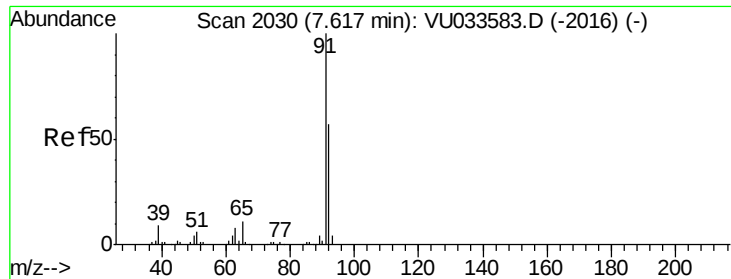


Abundance Ion 43.00 (42.70 to 43.70): VU033586.D (-1882) (-)

Ion 58.00 (57.70 to 58.70): VU033586.D (-1882) (-)

Ion 100.00 (99.70 to 100.70): VU033586.D (-1882) (-)





#42

Toluene

Concen: 0.393 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

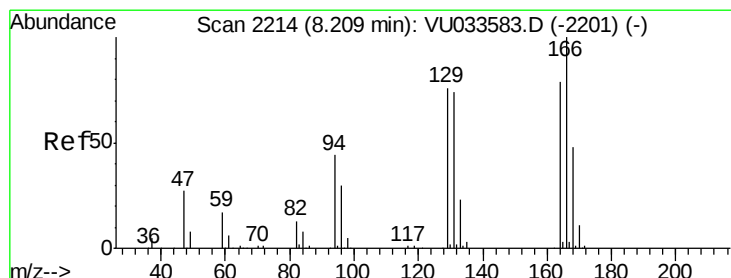
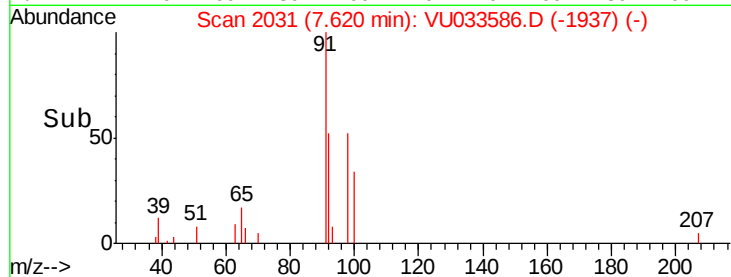
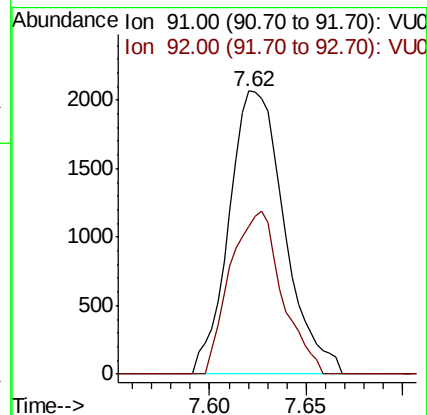
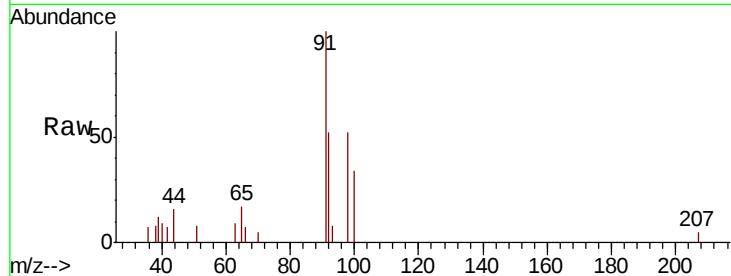
VIBLK40

Tgt Ion: 91 Resp: 4125

Ion Ratio Lower Upper

91 100

92 52.2 40.2 74.6



#46

Tetrachloroethene

Concen: 0.587 ug/L

RT: 8.21 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Tgt Ion: 164 Resp: 1206

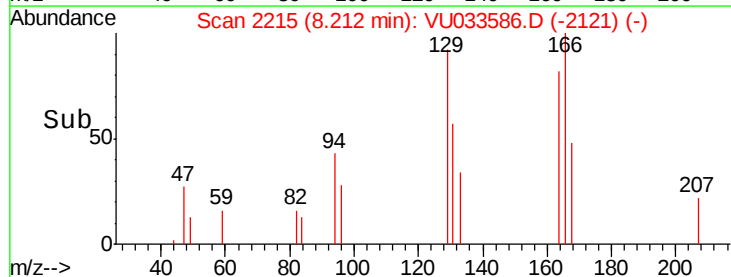
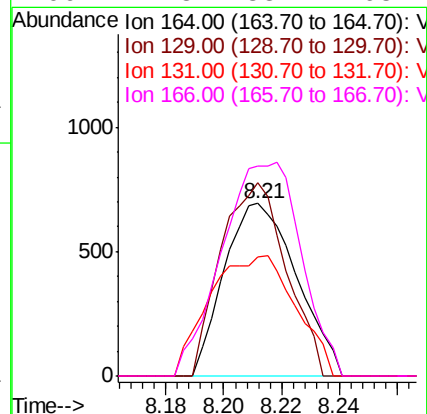
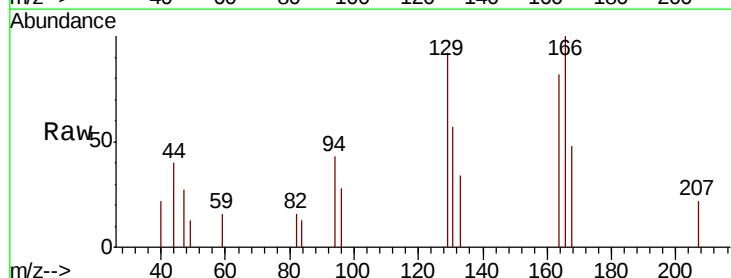
Ion Ratio Lower Upper

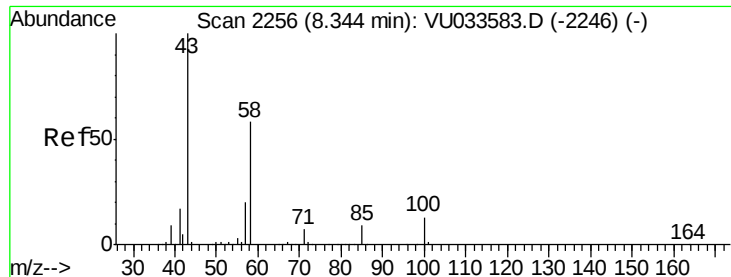
164 100

129 111.7 67.0 124.4

131 69.0 65.0 120.6

166 121.8 88.1 163.7

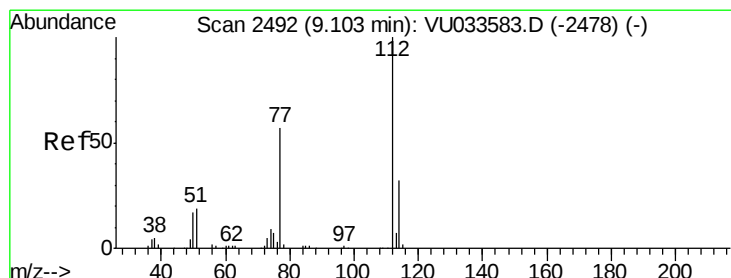
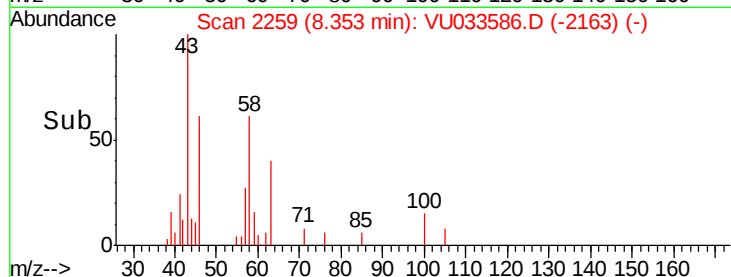
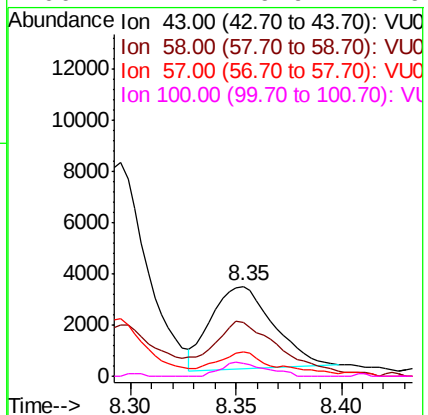
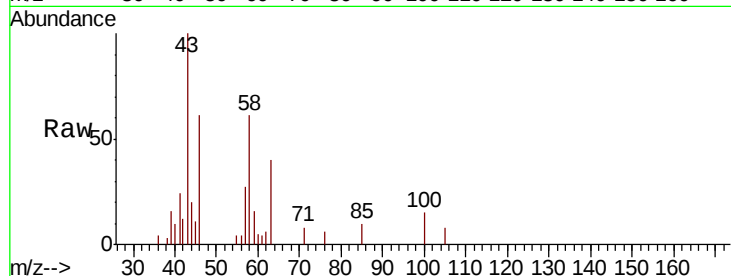




#48
2-Hexanone
Concen: 2.128 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.01 min
Lab File: VU033586.D
Acq: 03 Aug 2019 12:27

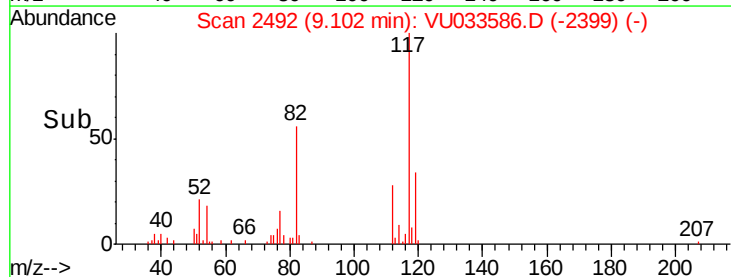
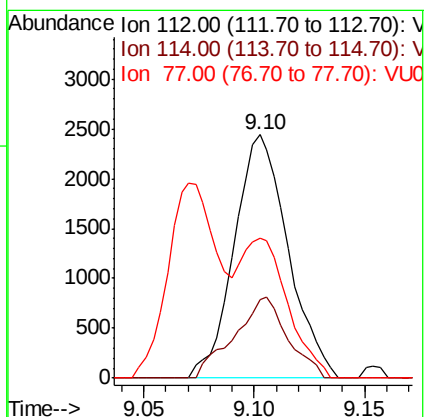
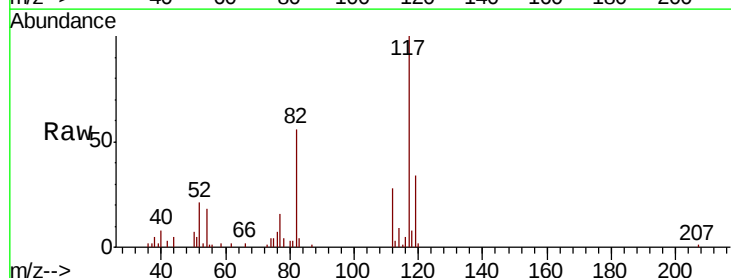
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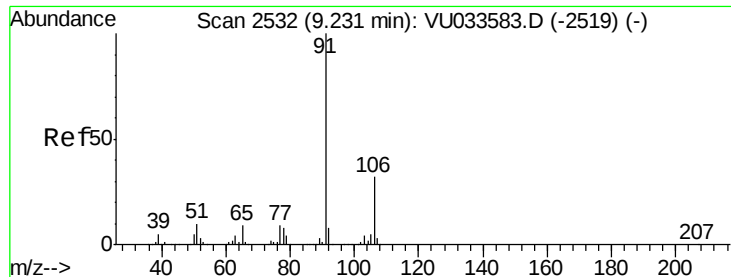
Tgt Ion: 43 Resp: 6623
Ion Ratio Lower Upper
43 100
58 71.2 45.9 68.9#
57 13.4 16.2 24.2#
100 12.1 9.9 14.9



#51
Chlorobenzene
Concen: 0.603 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033586.D
Acq: 03 Aug 2019 12:27

Tgt Ion: 112 Resp: 4145
Ion Ratio Lower Upper
112 100
114 32.4 22.3 41.3
77 57.6 46.3 69.5





#52

Ethylbenzene

Concen: 0.450 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

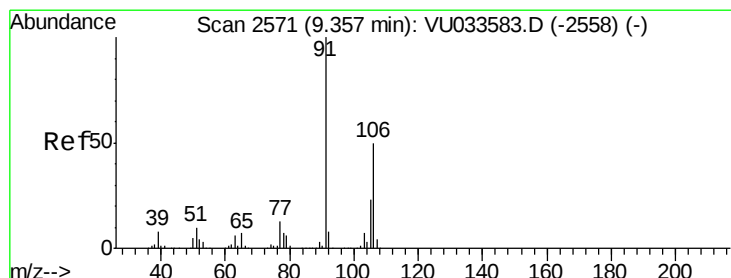
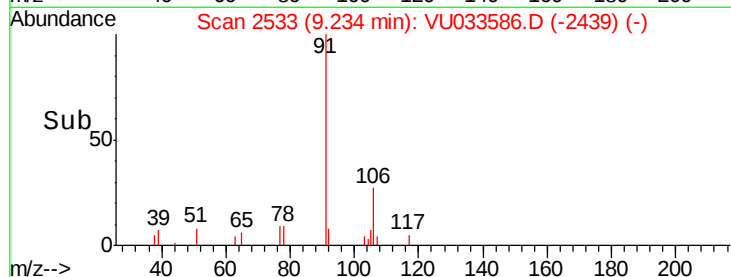
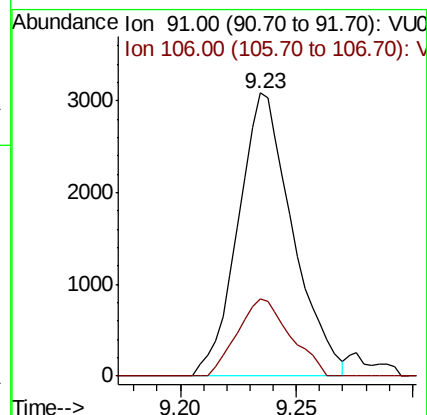
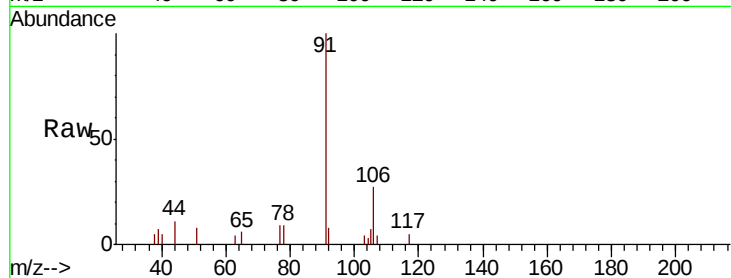
VIBLK40

Tgt Ion: 91 Resp: 5030

Ion Ratio Lower Upper

91 100

106 27.2 22.1 41.1



#53

m,p-Xylene

Concen: 0.518 ug/L

RT: 9.36 min Scan# 2573

Delta R.T. 0.01 min

Lab File: VU033586.D

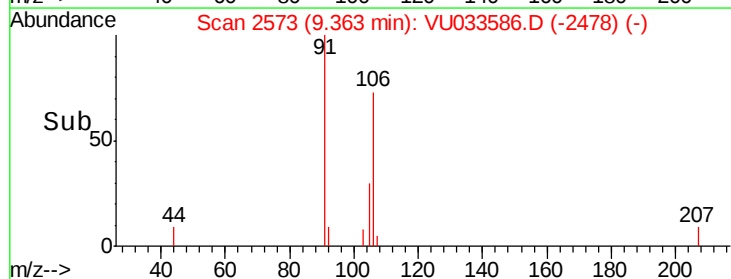
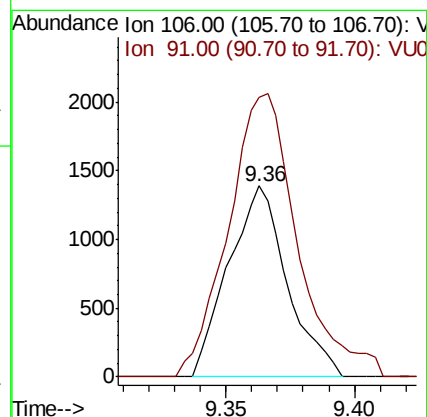
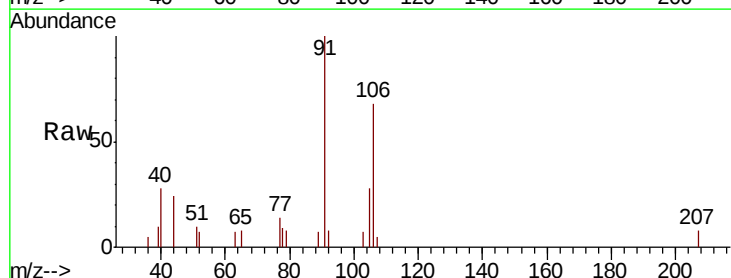
Acq: 03 Aug 2019 12:27

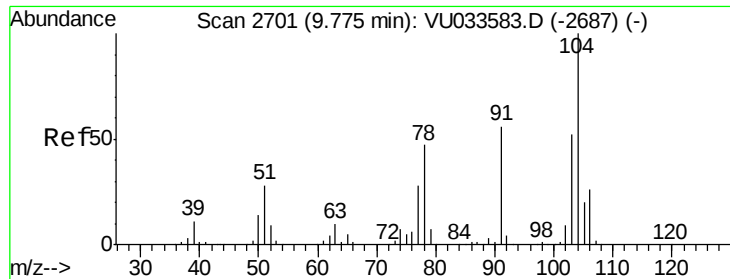
Tgt Ion: 106 Resp: 2205

Ion Ratio Lower Upper

106 100

91 146.9 141.2 262.2





#55

Styrene

Concen: 0.542 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

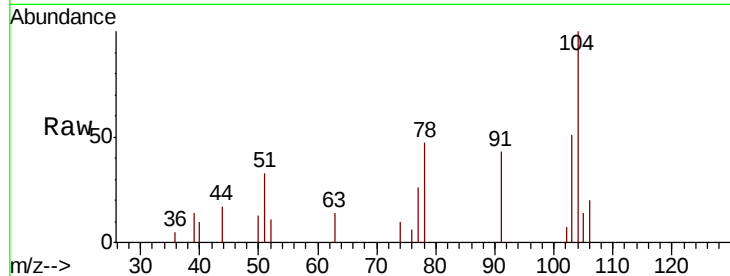
VIBLK40

Tgt Ion:104 Resp: 3865

Ion Ratio Lower Upper

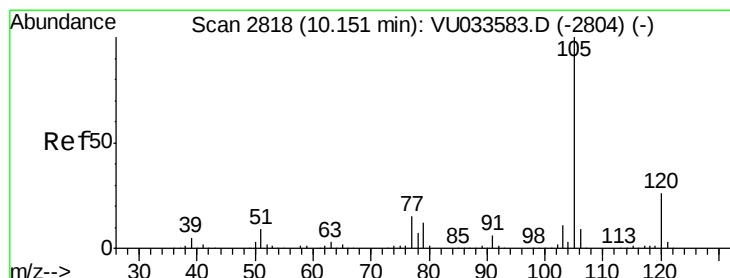
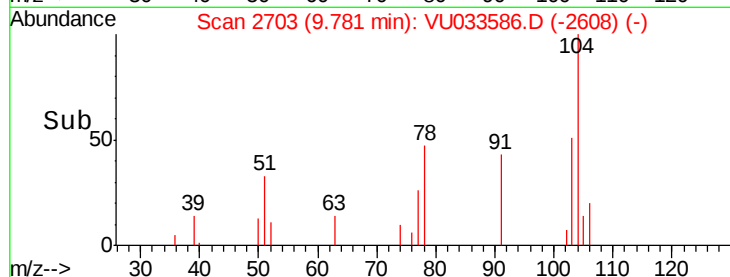
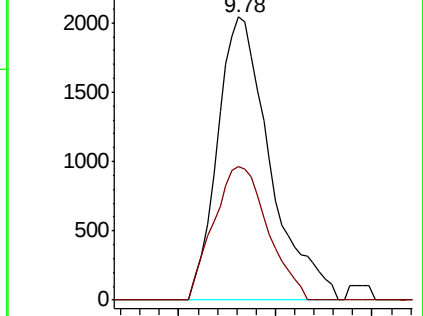
104 100

78 47.1 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 0.477 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

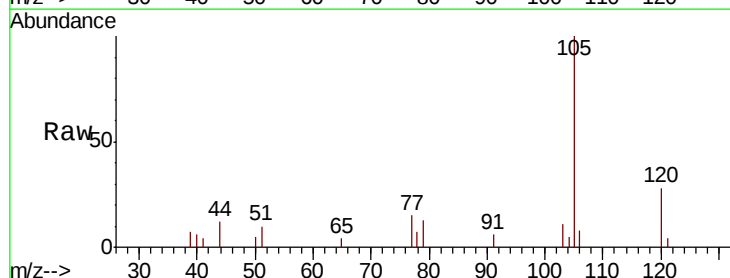
Tgt Ion:105 Resp: 5182

Ion Ratio Lower Upper

105 100

120 25.8 21.1 31.7

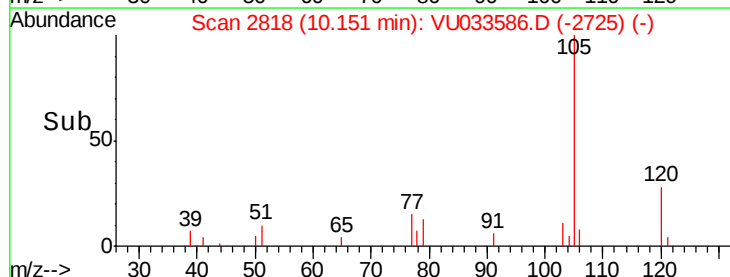
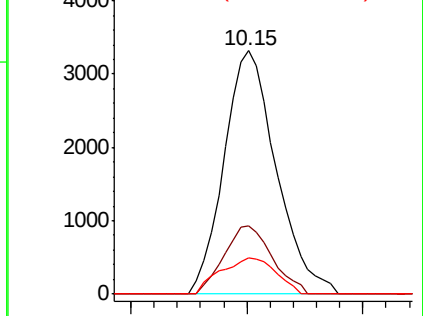
77 15.8 12.6 18.8

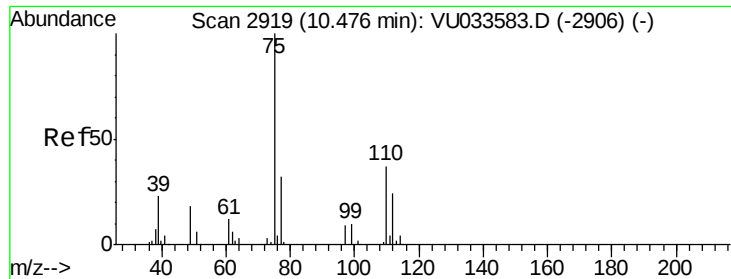


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

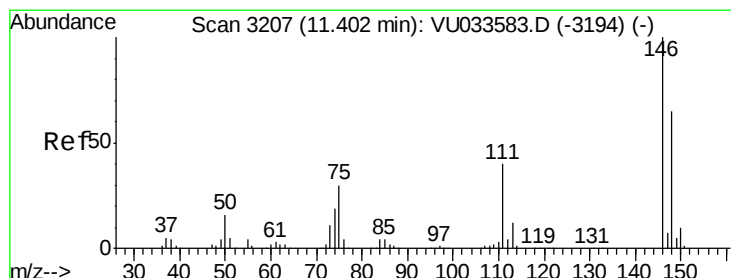
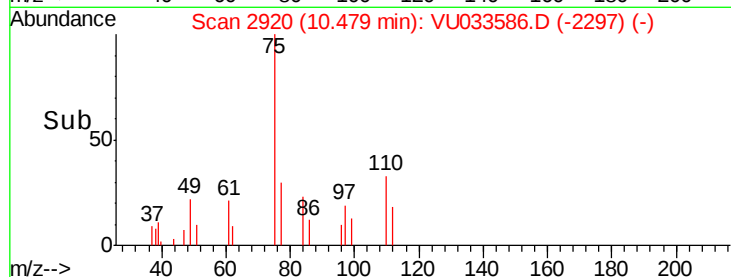
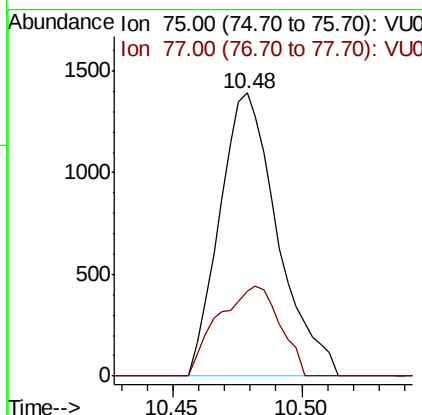
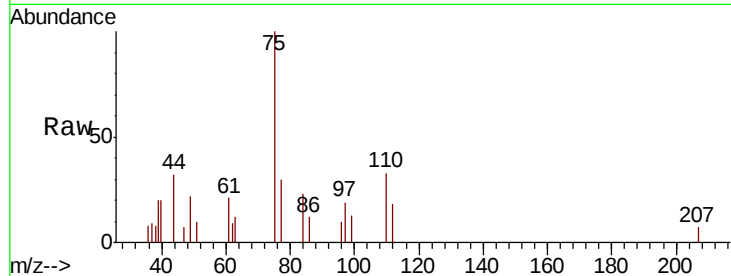




#59
 1,2,3-Trichloropropane
 Concen: 0.602 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033586.D
 Acq: 03 Aug 2019 12:27

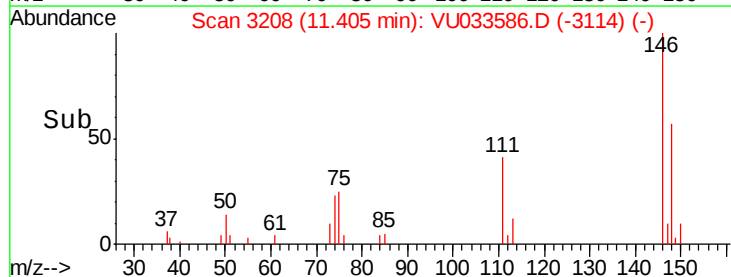
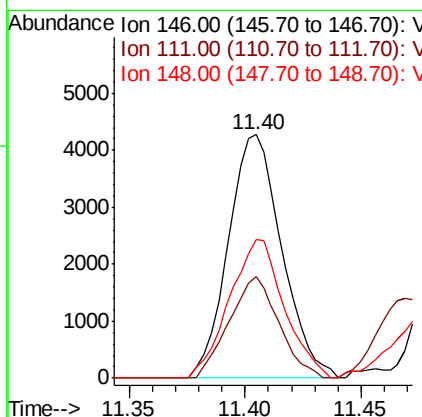
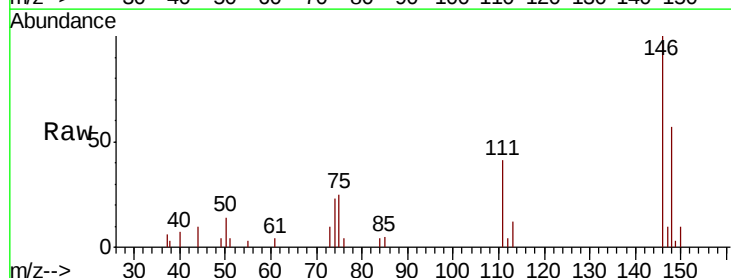
Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK40

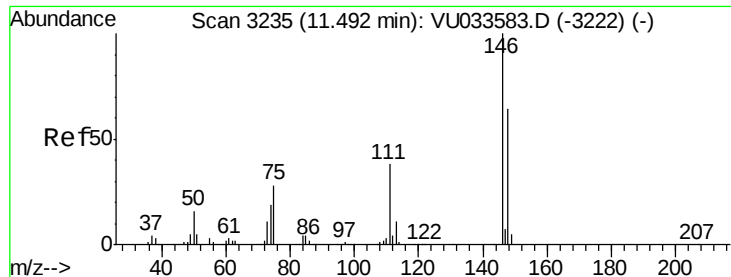
Tgt Ion: 75 Resp: 2178
 Ion Ratio Lower Upper
 75 100
 77 33.7 25.1 37.7



#62
 1,3-Dichlorobenzene
 Concen: 1.353 ug/L
 RT: 11.40 min Scan# 3208
 Delta R.T. 0.00 min
 Lab File: VU033586.D
 Acq: 03 Aug 2019 12:27

Tgt Ion: 146 Resp: 6830
 Ion Ratio Lower Upper
 146 100
 111 41.5 27.7 51.5
 148 57.2 45.2 84.0





#63

1,4-Dichlorobenzene

Concen: 1.642 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VIBLK40

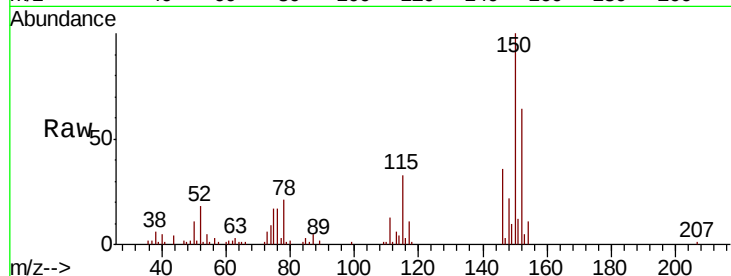
Tgt Ion:146 Resp: 8518

Ion Ratio Lower Upper

146 100

111 37.2 26.8 49.8

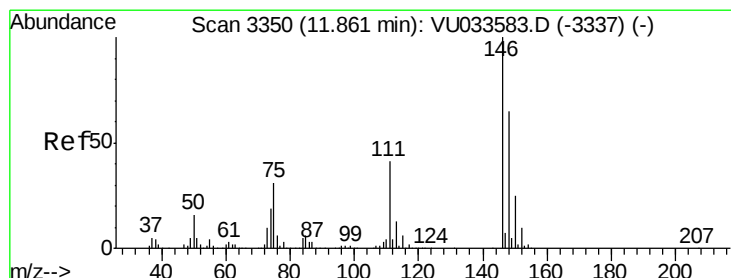
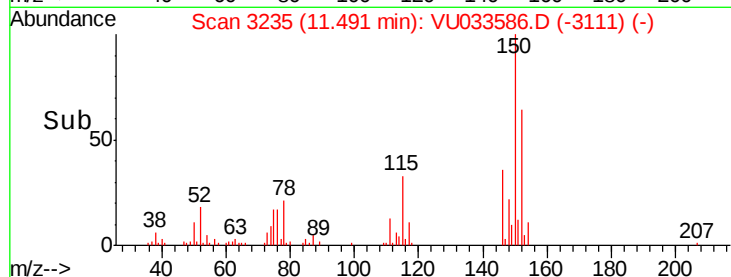
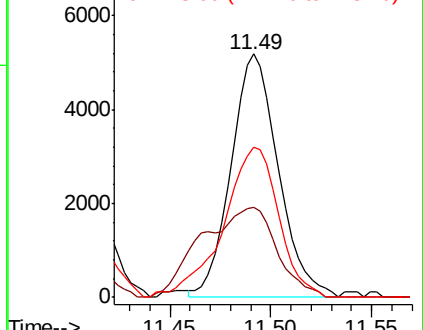
148 61.7 45.0 83.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 1.178 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

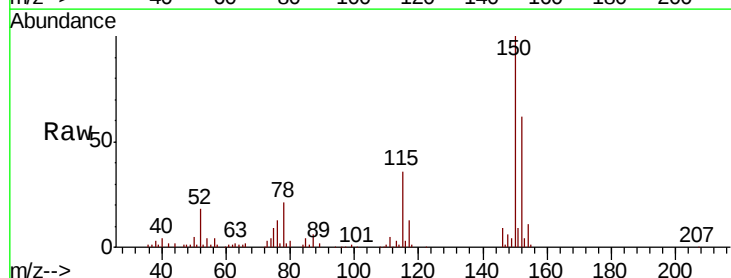
Tgt Ion:146 Resp: 5965

Ion Ratio Lower Upper

146 100

111 54.7 33.1 49.7#

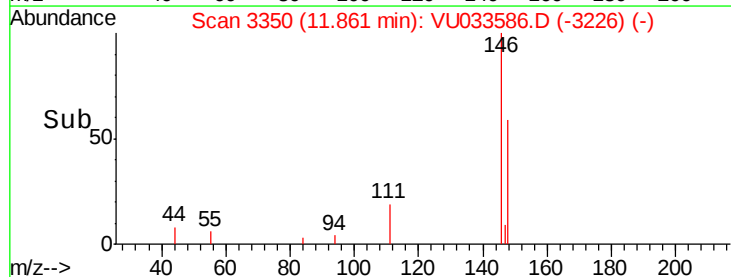
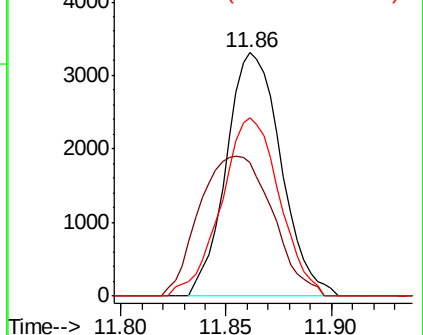
148 73.0 52.1 78.1

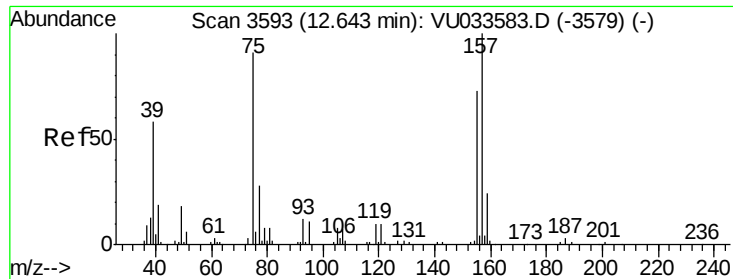


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dibromo-3-chloropropane

Concen: 1.240 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VIBLK40

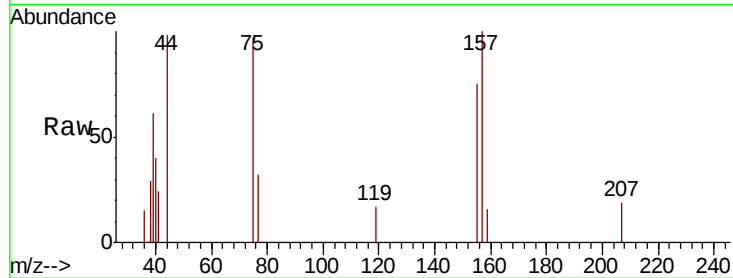
Tgt Ion: 75 Resp: 1211

Ion Ratio Lower Upper

75 100

155 77.2 64.3 96.5

157 102.6 88.0 132.0



Abundance Ion 75.00 (74.70 to 75.70): VU033583.D (-3579) (-)

Ion 155.00 (154.70 to 155.70): VU033583.D (-3579) (-)

Ion 157.00 (156.70 to 157.70): VU033583.D (-3579) (-)

12.65

800

600

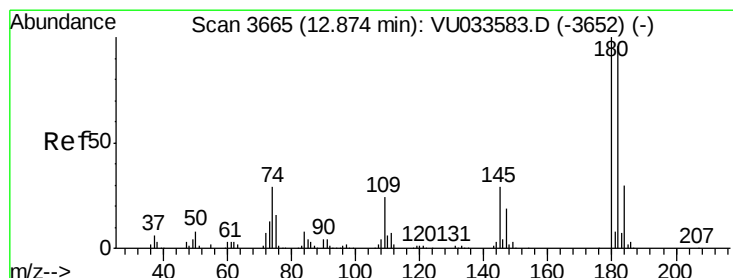
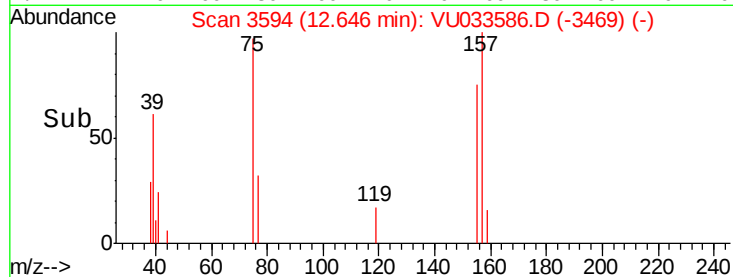
400

200

0

12.60 12.65 12.70

Time-->



#67

1,3,5-Trichlorobenzene

Concen: 1.855 ug/L

RT: 12.88 min Scan# 3667

Delta R.T. 0.01 min

Lab File: VU033586.D

Acq: 03 Aug 2019 12:27

Tgt Ion: 180 Resp: 7216

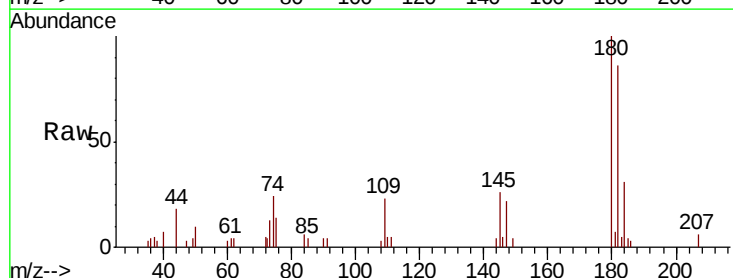
Ion Ratio Lower Upper

180 100

182 91.4 76.8 115.2

184 30.0 23.9 35.9

145 27.2 23.3 34.9



Abundance Ion 180.00 (179.70 to 180.70): VU033583.D (-3652) (-)

Ion 182.00 (181.70 to 182.70): VU033583.D (-3652) (-)

Ion 184.00 (183.70 to 184.70): VU033583.D (-3652) (-)

Ion 145.00 (144.70 to 145.70): VU033583.D (-3652) (-)

12.88

6000

5000

4000

3000

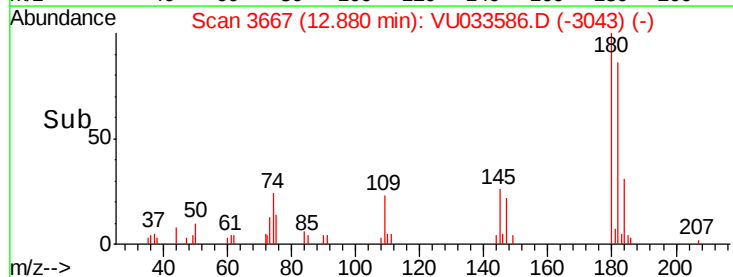
2000

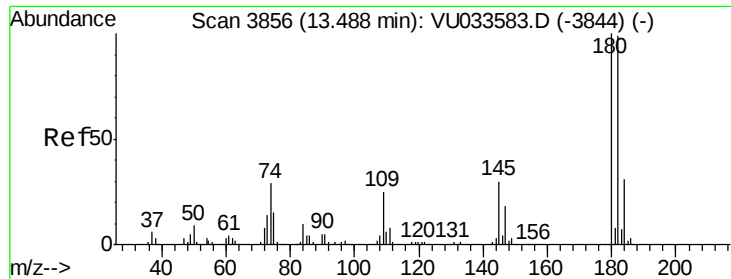
1000

0

12.85 12.90 12.95

Time-->

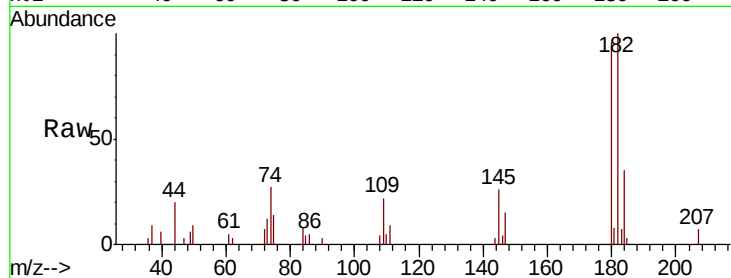




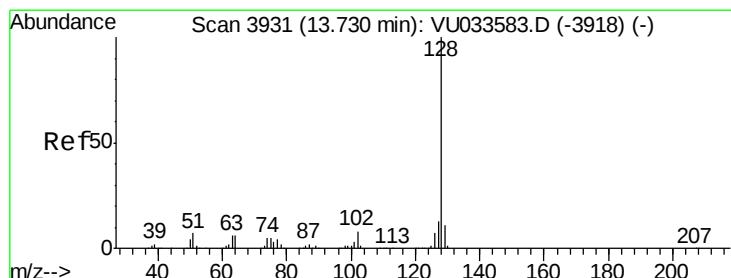
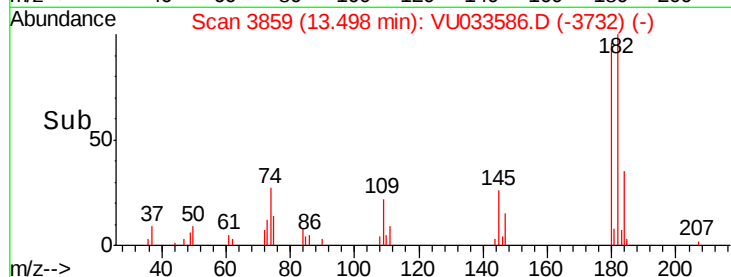
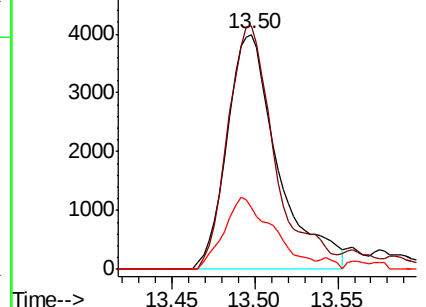
#68
 1,2,4-trichlorobenzene
 Concen: 2.611 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033586.D
 Acq: 03 Aug 2019 12:27

Instrument :
 MSVOA_U
 ClientSampled :
 VIBLK40

Tgt Ion:180 Resp: 8527
 Ion Ratio Lower Upper
 180 100
 182 95.9 77.2 115.8
 145 29.5 23.6 35.4

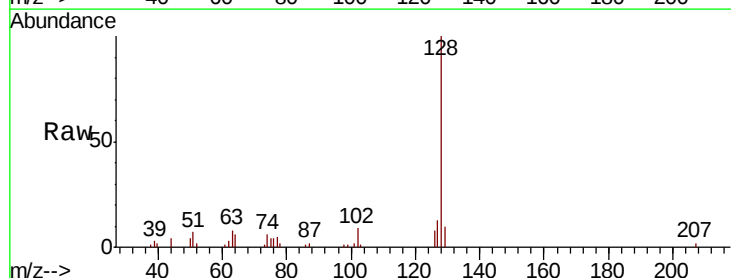


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

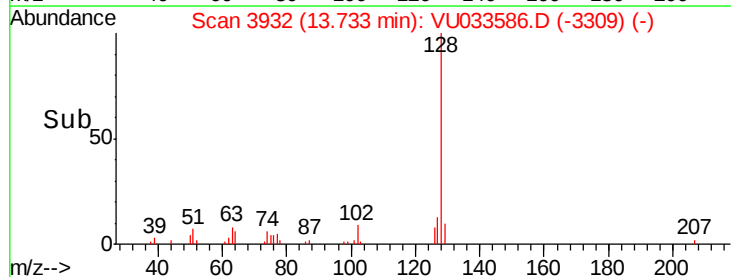
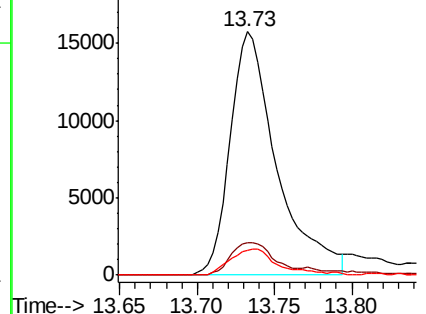


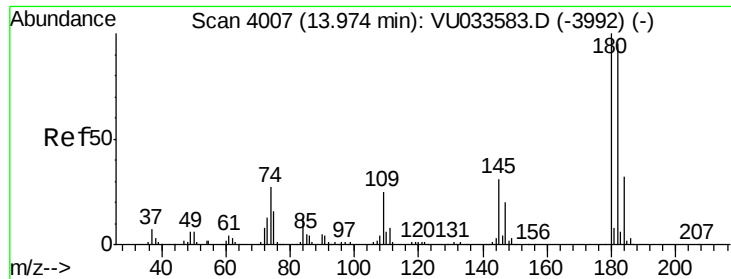
#69
 Naphthalene
 Concen: 3.478 ug/L
 RT: 13.73 min Scan# 3932
 Delta R.T. 0.00 min
 Lab File: VU033586.D
 Acq: 03 Aug 2019 12:27

Tgt Ion:128 Resp: 32964
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.6 16.0
 129 9.8 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 2.657 ug/L
 RT: 13.98 min Scan# 4008
 Delta R.T. 0.00 min
 Lab File: VU033586.D
 Acq: 03 Aug 2019 12:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK40

Tgt Ion:180 Resp: 9289
 Ion Ratio Lower Upper
 180 100
 182 91.3 76.5 114.7
 145 29.8 24.7 37.1

