

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
 Data File : VU031037.D
 Acq On : 11 Apr 2019 01:17
 Operator : JC/SP
 Sample : K2299-22
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DB6Z8

Quant Time: Apr 11 05:25:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 11 05:17:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	504284	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	490355	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	216265	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	228650	50.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.58%
7) Chloroethane-d5	1.68	69	183015	53.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.14%
11) 1,1-Dichloroethene-d2	2.27	63	309342	37.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.98%
21) 2-Butanone-d5	4.17	46	383017	107.35	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.35%
24) Chloroform-d	4.64	84	364610	53.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.04%
26) 1,2-Dichloroethane-d4	5.31	65	250001	53.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.56%
32) Benzene-d6	5.34	84	759685	53.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.14%
36) 1,2-Dichloropropane-d6	6.32	67	257935	52.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.16%
41) Toluene-d8	7.56	98	659320	51.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.92%
43) trans-1,3-Dichloropropene-	7.85	79	106068	47.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.84%
47) 2-Hexanone-d5	8.31	63	233576	104.17	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.17%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	345065	52.15	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.30%
64) 1,2-Dichlorobenzene-d4	11.85	152	247586	58.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	116.42%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	26444	4.768	ug/L #	1
8) Chloroethane	1.40	64	116240	36.746	ug/L #	74
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2309	0.639	ug/L #	20
12) 1,1-Dichloroethene	2.27	96	3808	1.092	ug/L #	1
13) Acetone	2.31	43	23279	6.376	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	5494	1.484	ug/L	87
20) cis-1,2-Dichloroethene	4.22	96	1209642	295.989	ug/L	94
25) Chloroform	4.66	83	10739	1.399	ug/L	93
29) Cyclohexane	4.99	56	5277	0.755	ug/L #	92
34) Trichloroethene	6.18	95	773416	196.513	ug/L	97
35) Methylcyclohexane	6.41	83	6815	1.122	ug/L #	86
42) Toluene	7.64	91	27848	1.700	ug/L	87
44) trans-1,3-Dichloropropene	7.85	75	4738	0.831	ug/L	89
46) Tetrachloroethene	8.22	164	103706	36.244	ug/L	99
48) 2-Hexanone	8.37	43	9921	1.740	ug/L #	65
52) Ethylbenzene	9.25	91	17889	1.002	ug/L	97
56) Isopropylbenzene	10.16	105	26909	1.650	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Thu Apr 11 05:17:40 2019
Response via : Initial Calibration

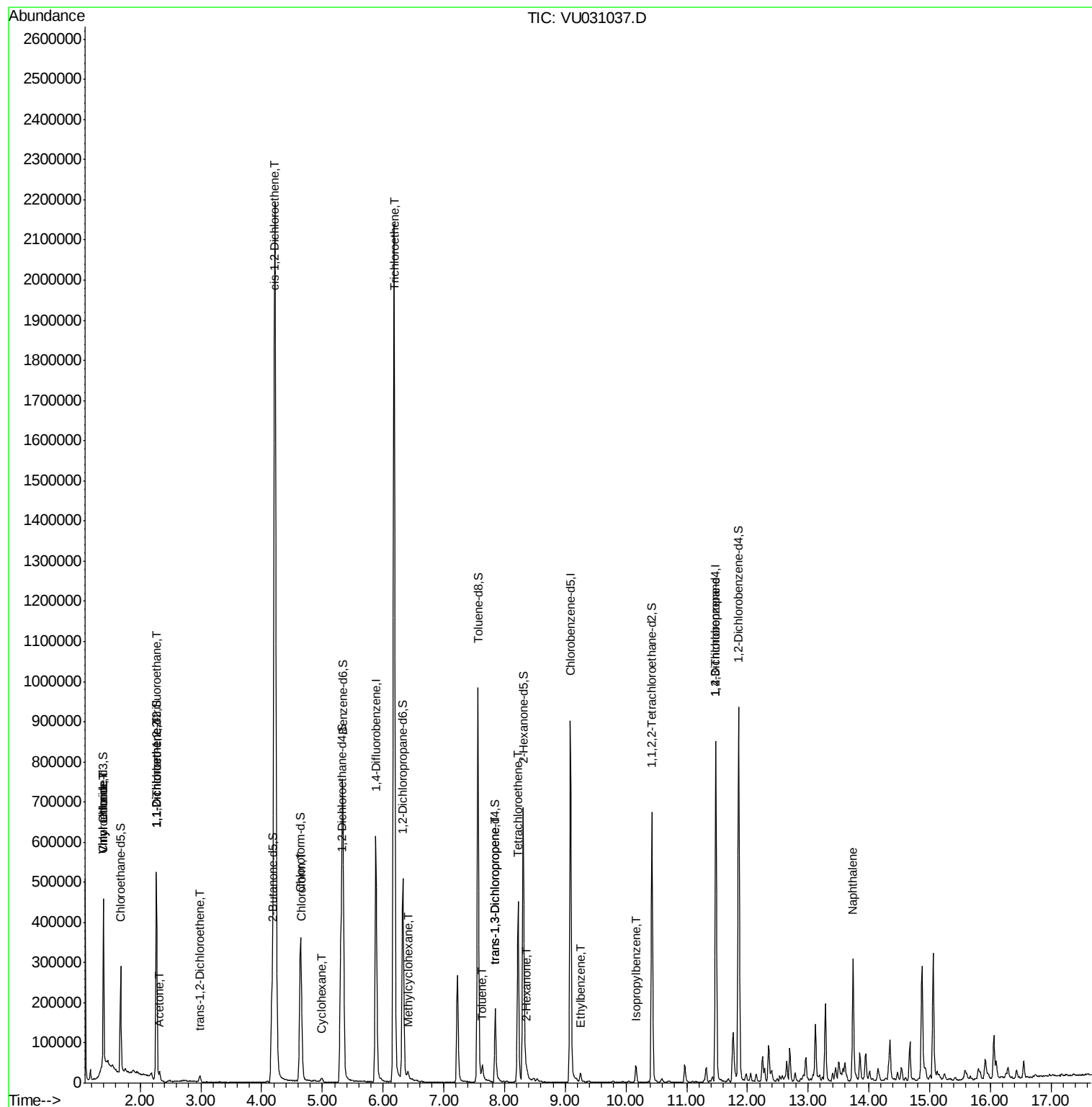
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.48	75	28383	5.216	ug/L	99
69) Naphthalene	13.74	128	250621	18.203	ug/L	100

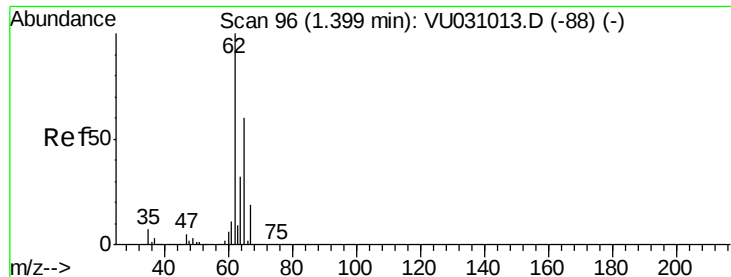
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041119\
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Quant Time: Apr 11 05:25:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 11 05:17:40 2019
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#5

Vinyl chloride

Concen: 4.768 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Instrument :

MSVOA_U

ClientSampleId :

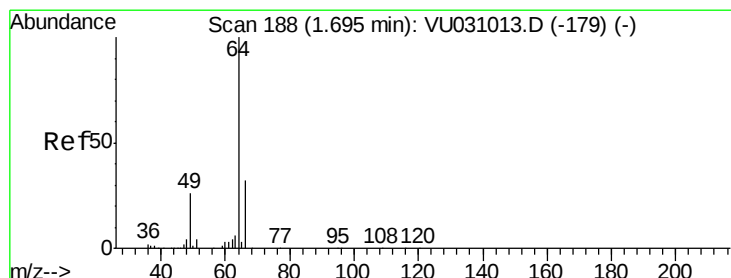
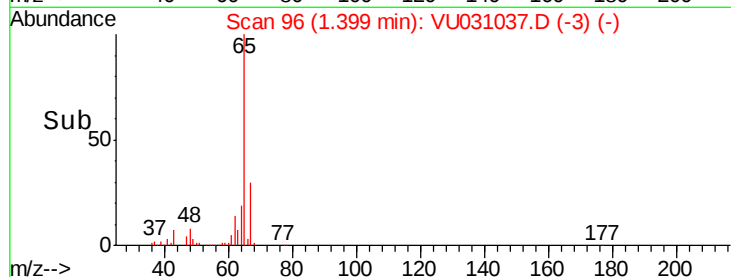
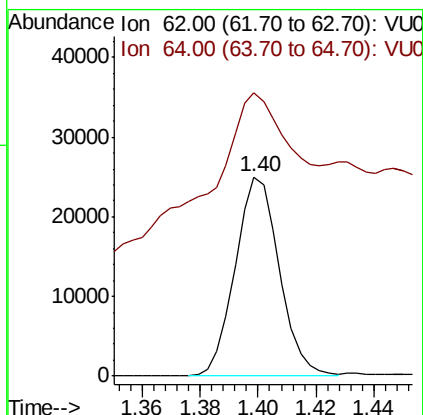
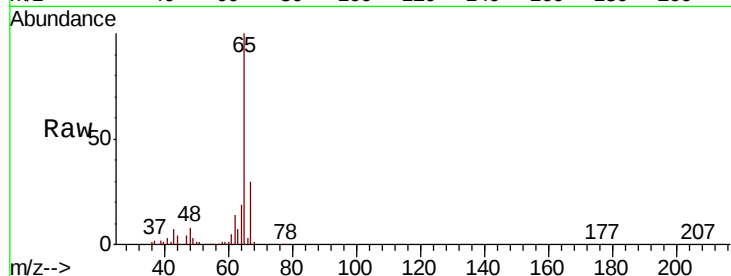
DB6Z8

Tot Ion: 62 Resp: 26444

Ion Ratio Lower Upper

62 100

64 142.1 21.5 39.9#



#8

Chloroethane

Concen: 36.746 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.30 min

Lab File: VU031037.D

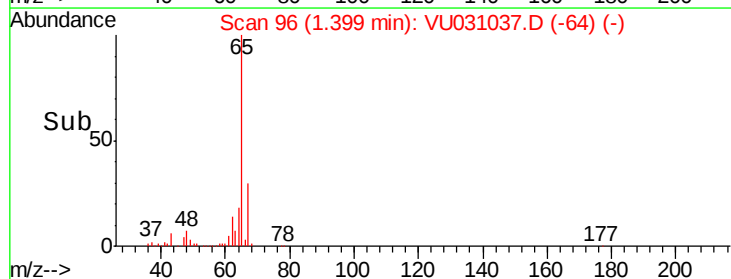
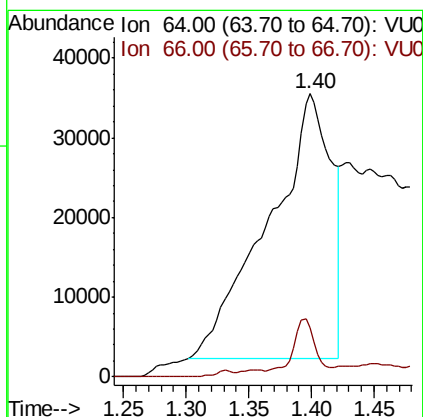
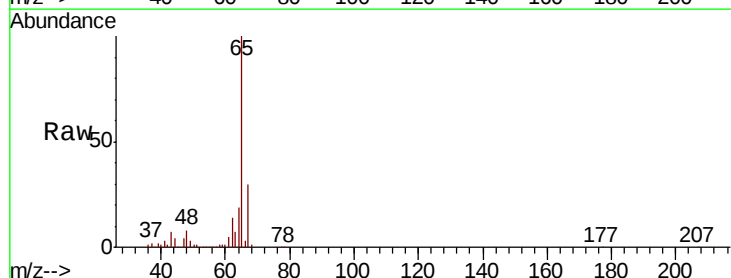
Acq: 11 Apr 2019 01:17

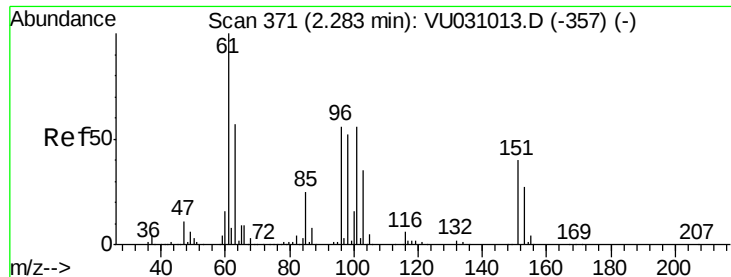
Tgt Ion: 64 Resp: 116240

Ion Ratio Lower Upper

64 100

66 17.3 22.4 41.6#





#10

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

Concen: 0.639 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Instrument :

MSVOA_U

ClientSampleId :

DB6Z8

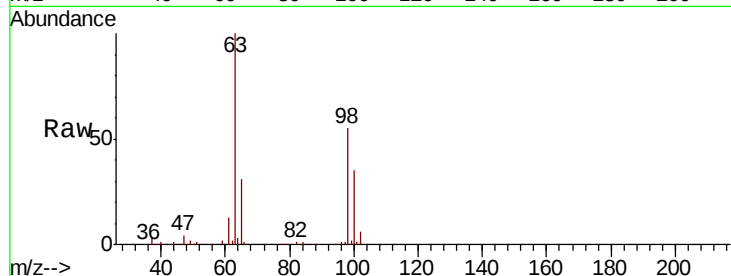
Tot Ion:101 Resp: 2309

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

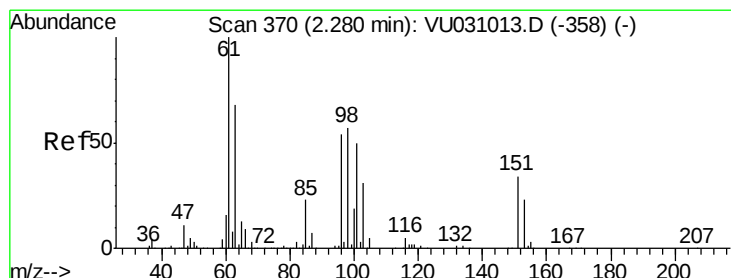
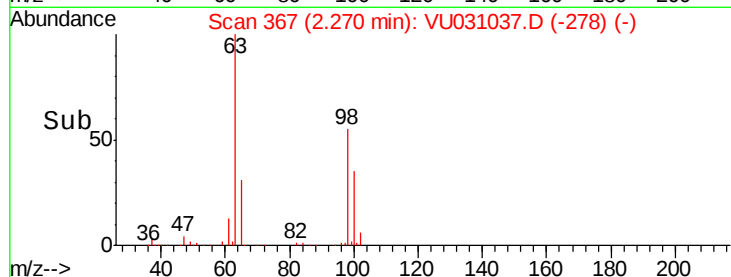
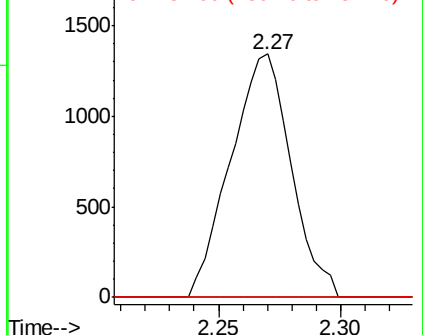
151 0.0 57.4 86.0#



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: 1.092 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

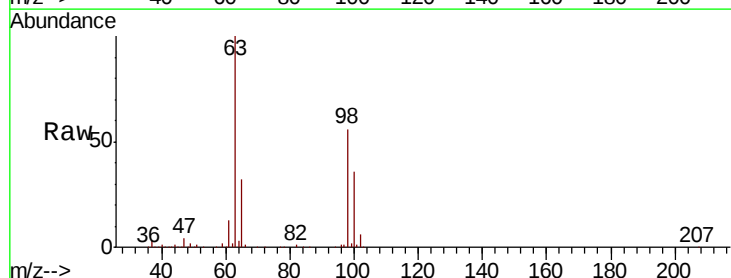
Tgt Ion: 96 Resp: 3808

Ion Ratio Lower Upper

96 100

61 1001.2 132.0 245.2#

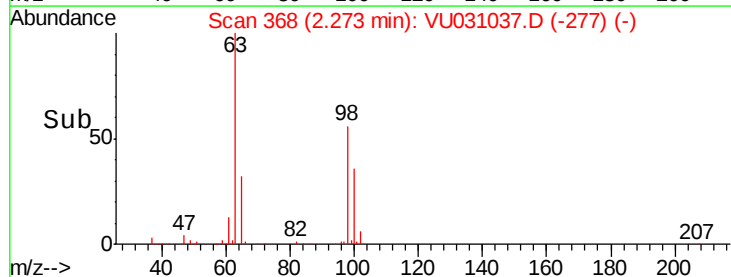
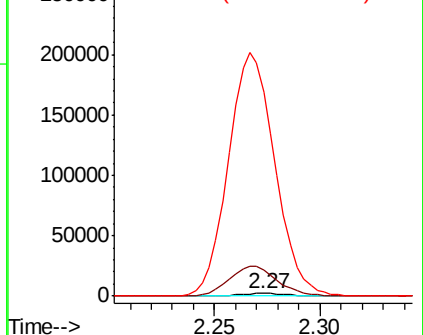
63 7878.5 90.9 168.9#

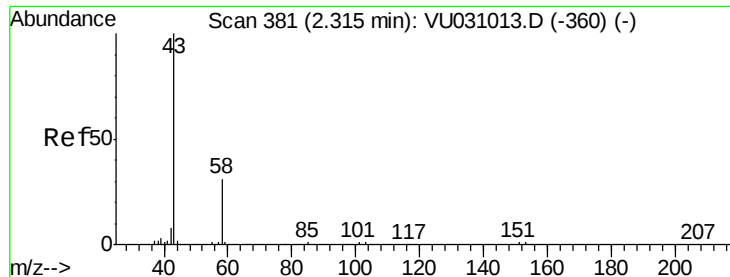


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.376 ug/L

RT: 2.31 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Instrument :

MSVOA_U

ClientSampled :

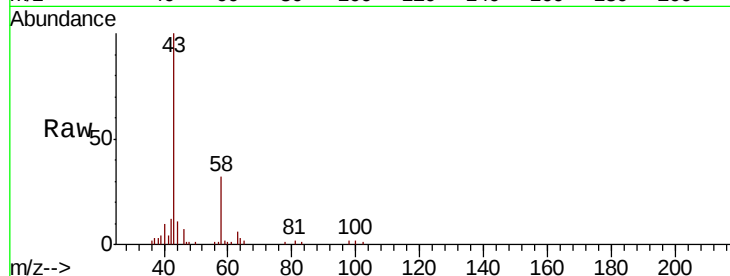
DB6Z8

Tot Ion: 43 Resp: 23279

Ion Ratio Lower Upper

43 100

58 31.2 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU031037.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU031037.D (-360) (-)

15000

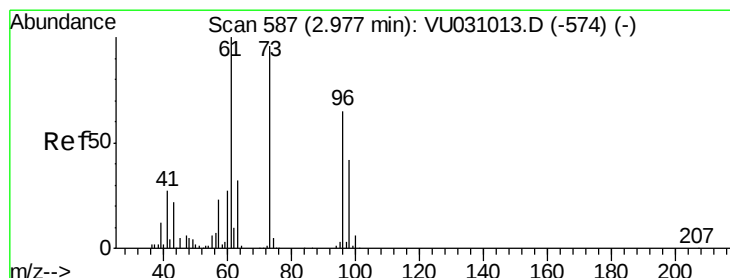
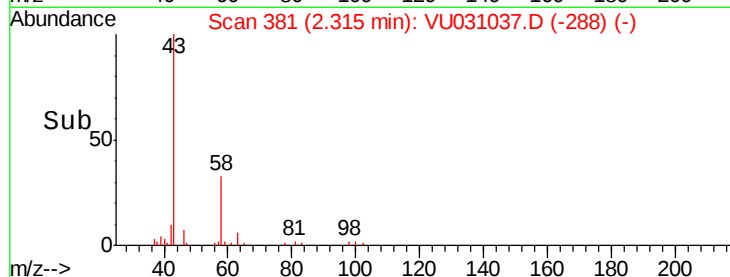
10000

5000

0

2.25 2.30 2.35 2.40

Time-->



#17

trans-1,2-Dichloroethene

Concen: 1.484 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

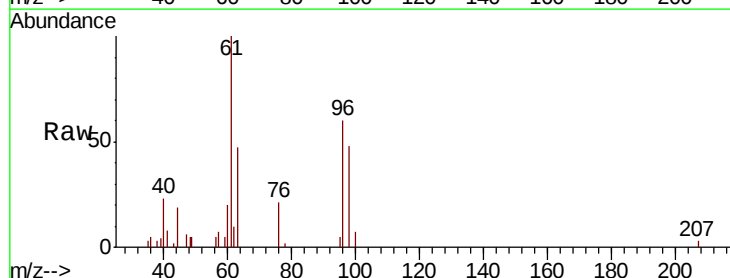
Tgt Ion: 96 Resp: 5494

Ion Ratio Lower Upper

96 100

61 168.0 109.5 203.3

98 80.5 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031037.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU031037.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU031037.D (-494) (-)

6000

5000

4000

3000

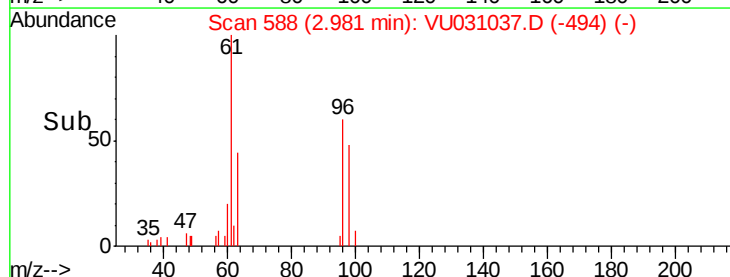
2000

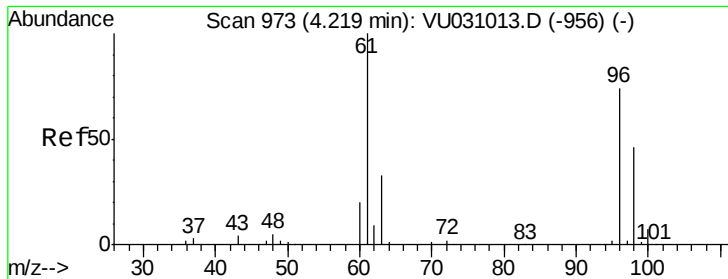
1000

0

2.95 3.00

Time-->

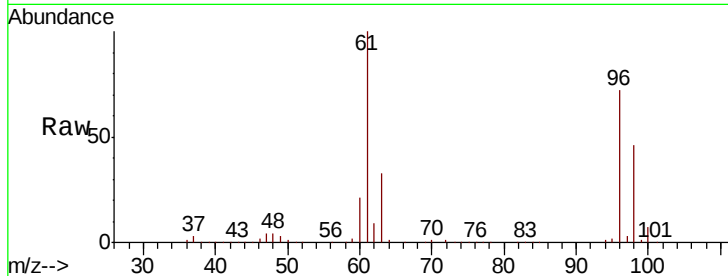




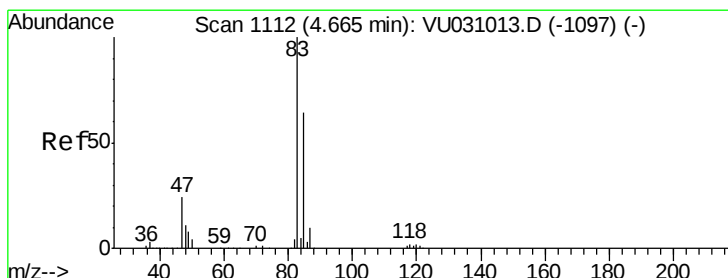
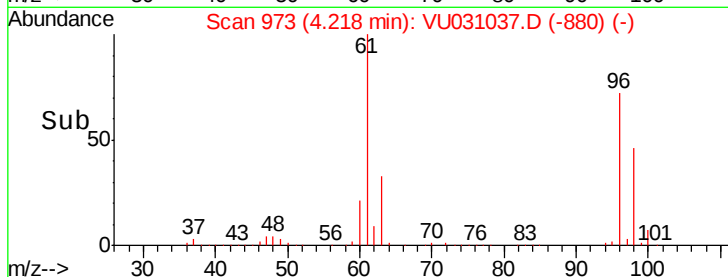
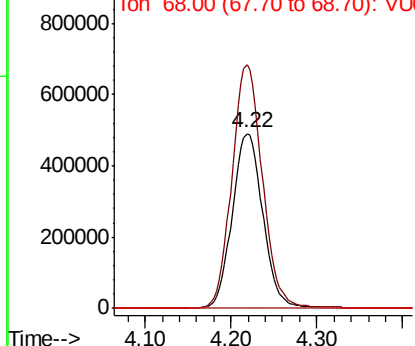
#20
 cis-1,2-Dichloroethene
 Concen: 295.989 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031037.D
 Acq: 11 Apr 2019 01:17

Instrument :
 MSVOA_U
 ClientSampleId :
 DB6Z8

Tot Ion: 96 Resp: 1209642
 Ion Ratio Lower Upper
 96 100
 61 139.0 102.9 191.1
 68 0.0 0.0 0.0

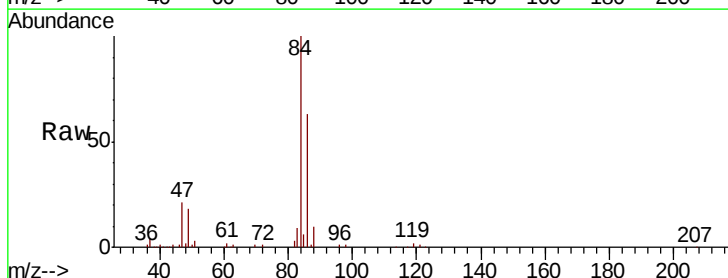


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

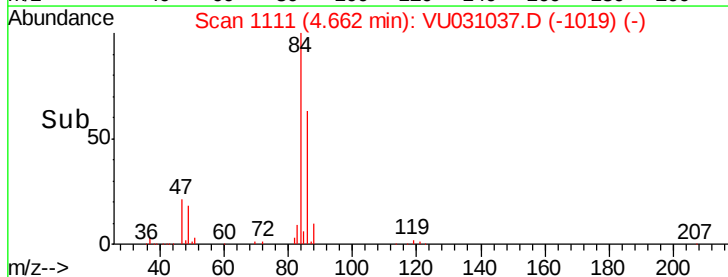
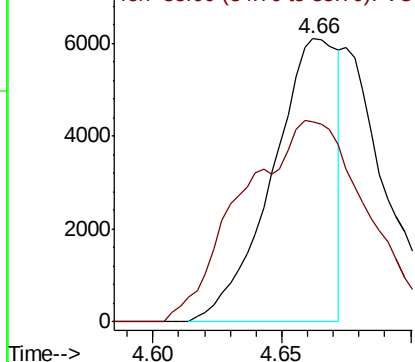


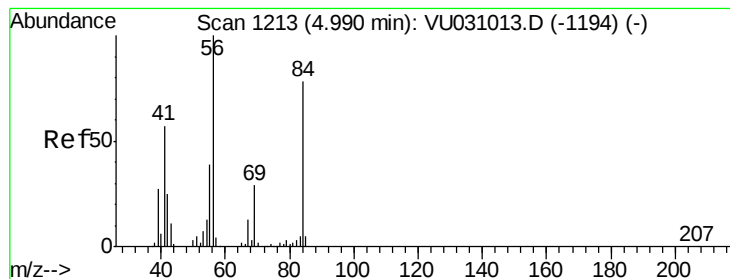
#25
 Chloroform
 Concen: 1.399 ug/L
 RT: 4.66 min Scan# 1111
 Delta R.T. -0.00 min
 Lab File: VU031037.D
 Acq: 11 Apr 2019 01:17

Tgt Ion: 83 Resp: 10739
 Ion Ratio Lower Upper
 83 100
 85 70.8 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#29

Cyclohexane

Concen: 0.755 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Instrument :

MSVOA_U

ClientSampled :

DB6Z8

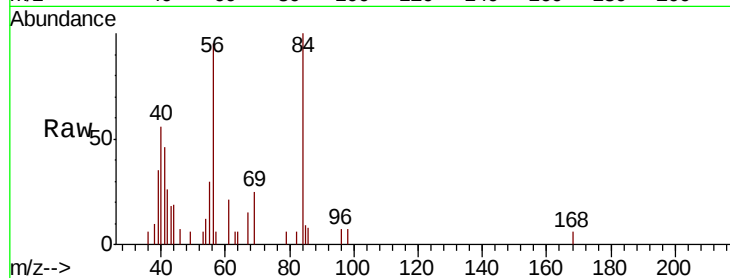
Tot Ion: 56 Resp: 5277

Ion Ratio Lower Upper

56 100

69 13.8 22.0 33.0#

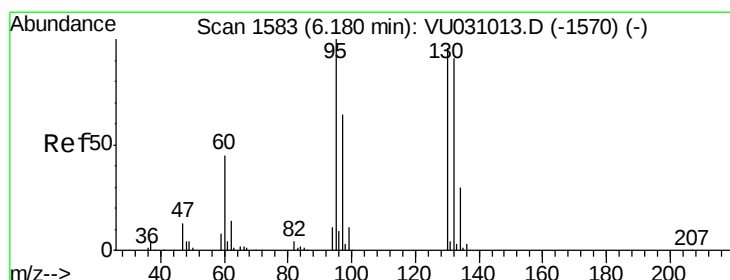
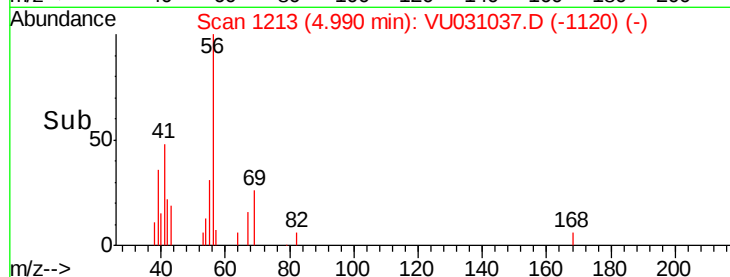
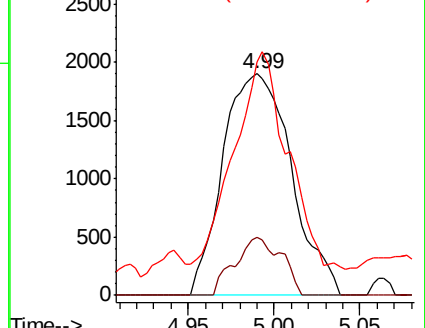
84 73.1 58.2 87.2



Abundance Ion 56.00 (55.70 to 56.70): VU031013.D (-1194) (-)

Ion 69.00 (68.70 to 69.70): VU031013.D (-1194) (-)

Ion 84.00 (83.70 to 84.70): VU031013.D (-1194) (-)



#34

Trichloroethene

Concen: 196.513 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Tgt Ion: 95 Resp: 773416

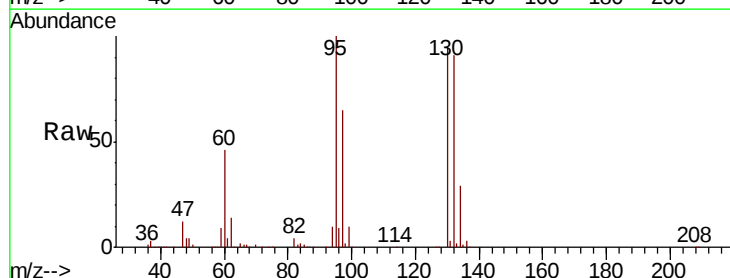
Ion Ratio Lower Upper

95 100

97 65.1 44.5 82.7

132 91.2 61.5 114.1

130 95.3 64.9 120.5

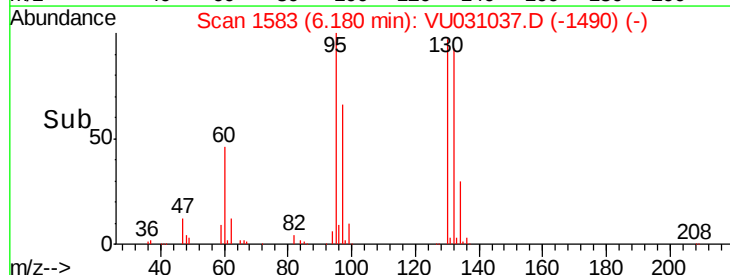
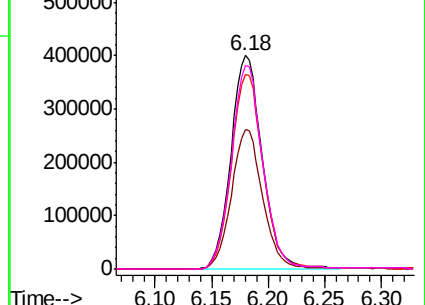


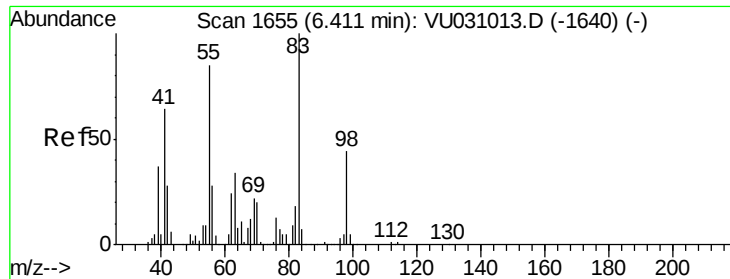
Abundance Ion 95.00 (94.70 to 95.70): VU031013.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU031013.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU031013.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU031013.D (-1570) (-)

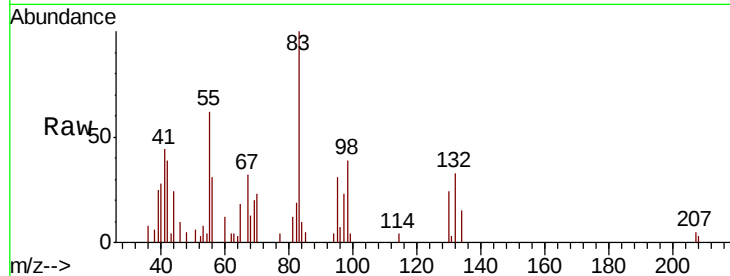




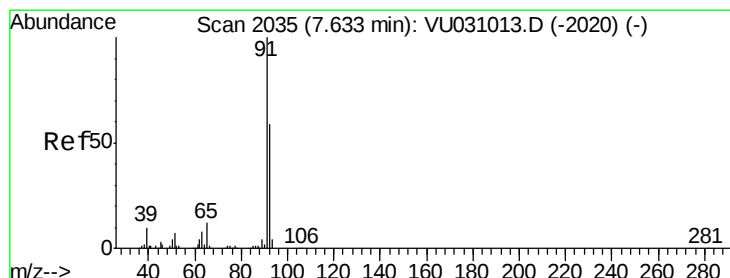
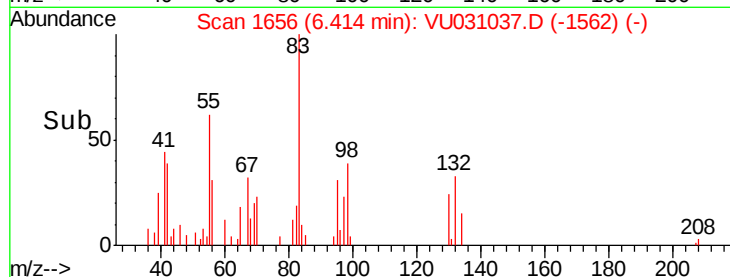
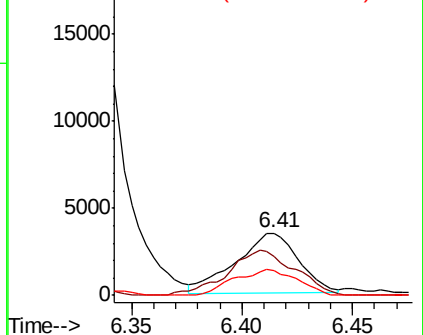
#35
Methvlcvclohexane
Concen: 1.122 ug/L
RT: 6.41 min Scan# 1656
Delta R.T. 0.00 min
Lab File: VU031037.D
Acq: 11 Apr 2019 01:17

Instrument :
MSVOA_U
ClientSampleId :
DB6Z8

Tot Ion: 83 Resp: 6815
Ion Ratio Lower Upper
83 100
55 79.7 71.6 107.4
98 29.6 35.4 53.0#

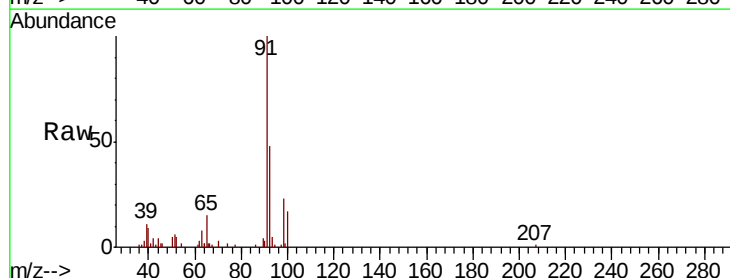


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

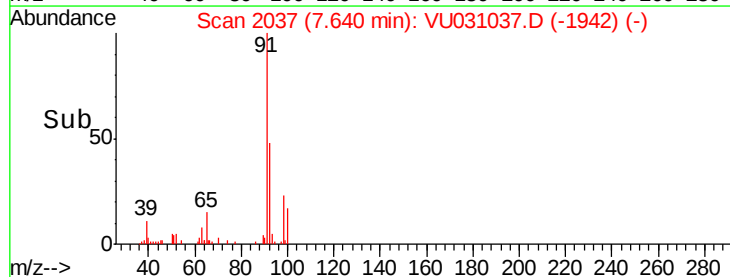
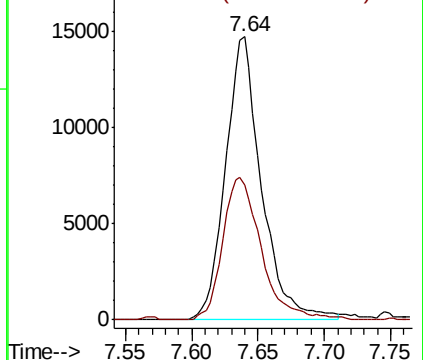


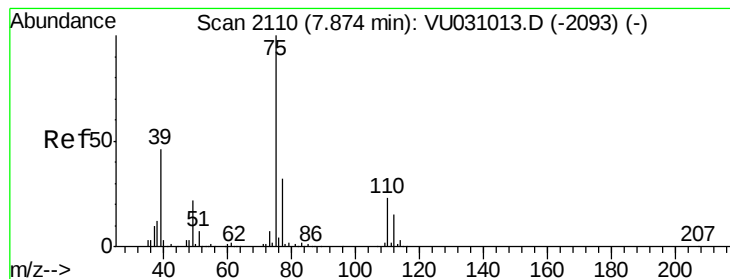
#42
Toluene
Concen: 1.700 ug/L
RT: 7.64 min Scan# 2037
Delta R.T. 0.01 min
Lab File: VU031037.D
Acq: 11 Apr 2019 01:17

Tgt Ion: 91 Resp: 27848
Ion Ratio Lower Upper
91 100
92 47.7 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.831 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.02 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Instrument :

MSVOA_U

ClientSampleId :

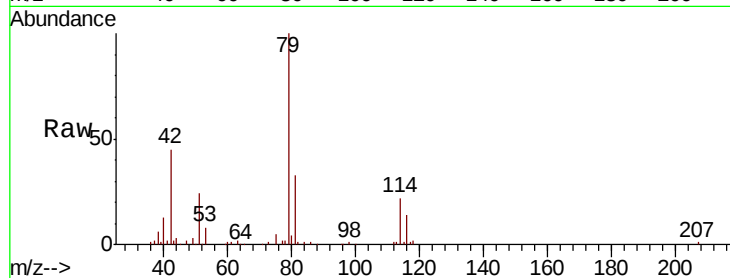
DB6Z8

Tot Ion: 75 Resp: 4738

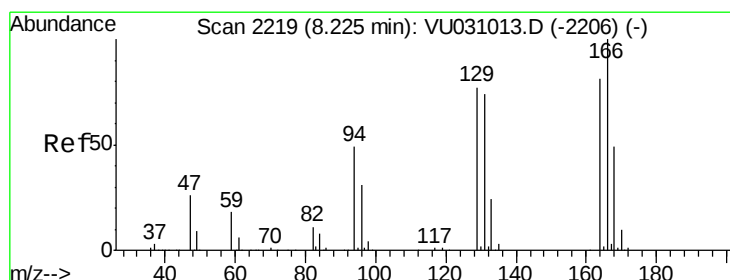
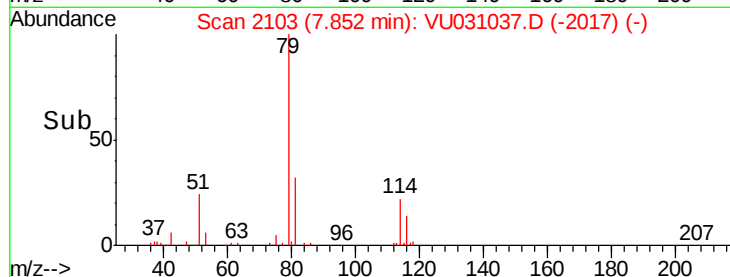
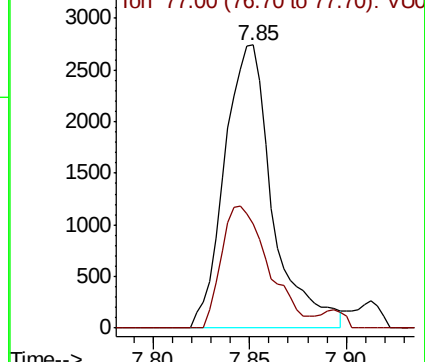
Ion Ratio Lower Upper

75 100

77 36.7 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU031037.D (-2103) (-)



#46

Tetrachloroethene

Concen: 36.244 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Tgt Ion:164 Resp: 103706

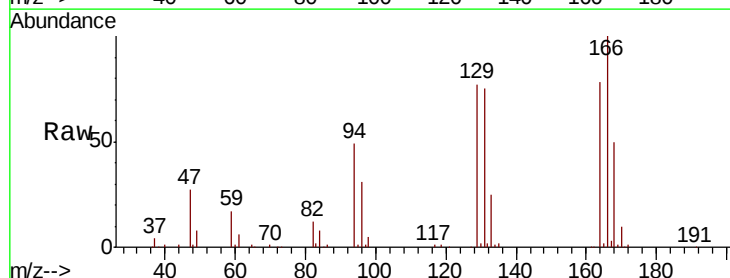
Ion Ratio Lower Upper

164 100

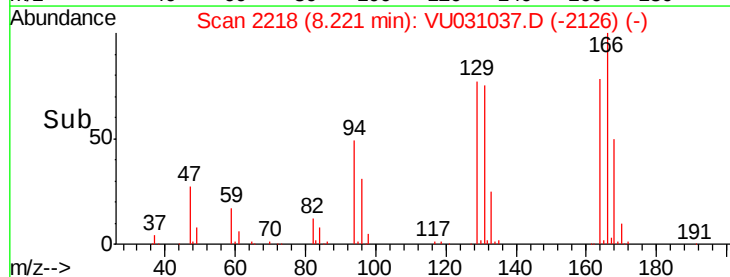
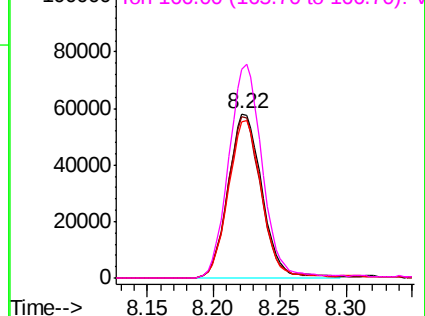
129 98.6 67.4 125.2

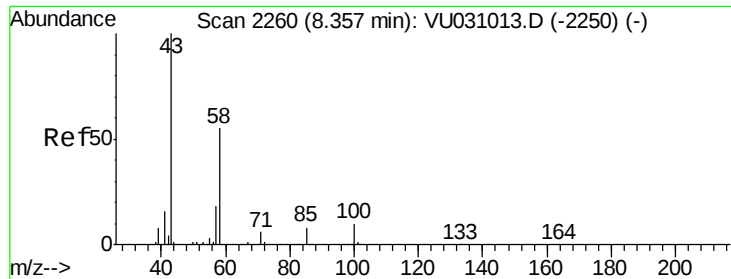
131 95.2 65.9 122.5

166 127.5 88.6 164.6



Abundance Ion 164.00 (163.70 to 164.70): VU031037.D (-2218) (-)

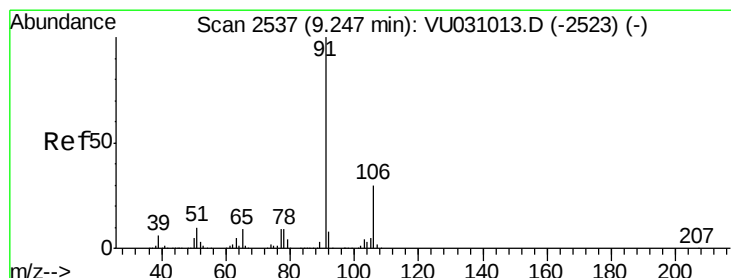
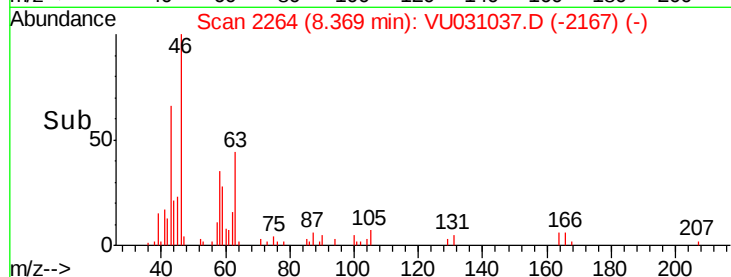
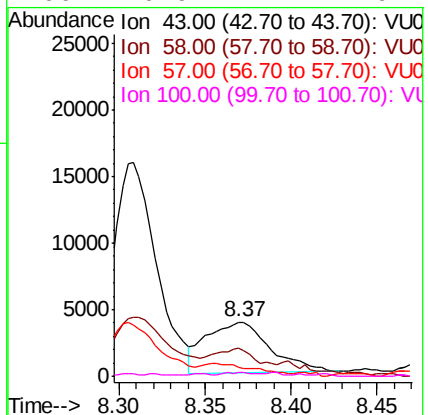
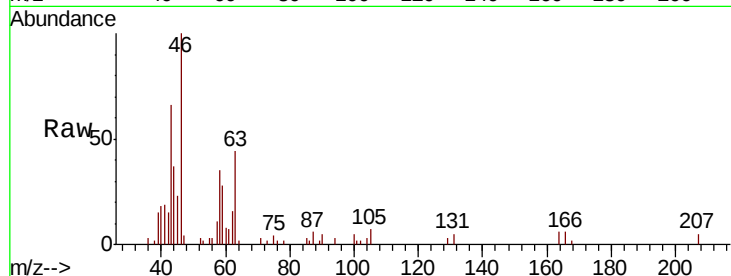




#48
2-Hexanone
Concen: 1.740 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU031037.D
Acq: 11 Apr 2019 01:17

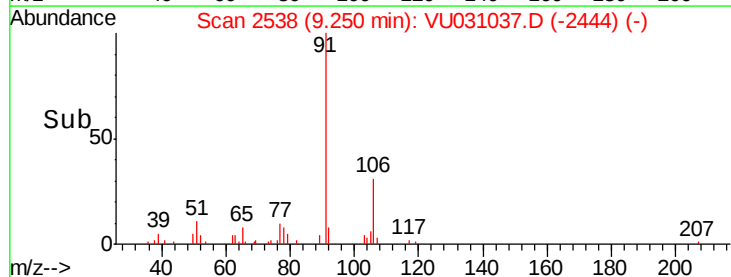
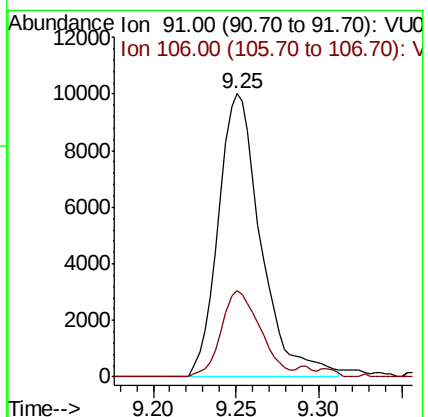
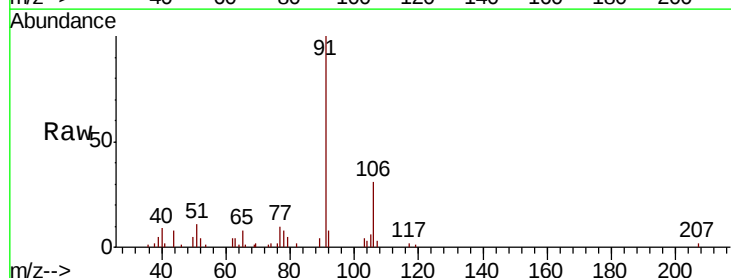
Instrument :
MSVOA_U
ClientSampleId :
DB6Z8

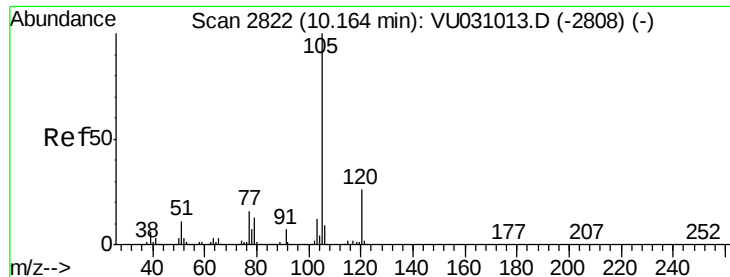
Tot Ion: 43 Resp: 9921
Ion Ratio Lower Upper
43 100
58 27.1 41.9 62.9#
57 0.0 14.3 21.5#
100 0.9 7.1 10.7#



#52
Ethylbenzene
Concen: 1.002 ug/L
RT: 9.25 min Scan# 2538
Delta R.T. 0.00 min
Lab File: VU031037.D
Acq: 11 Apr 2019 01:17

Tgt Ion: 91 Resp: 17889
Ion Ratio Lower Upper
91 100
106 30.7 20.4 37.8





#56

Isopropylbenzene

Concen: 1.650 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Instrument :

MSVOA_U

ClientSampleId :

DB6Z8

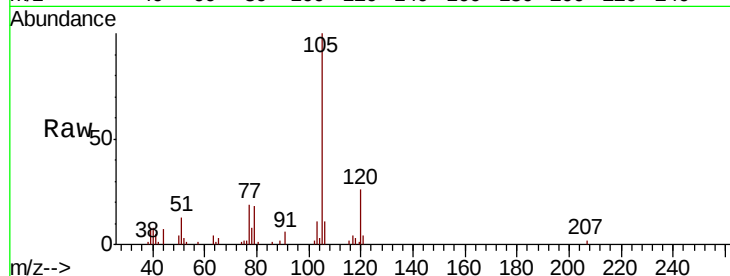
Tot Ion:105 Resp: 26909

Ion Ratio Lower Upper

105 100

120 24.6 20.4 30.6

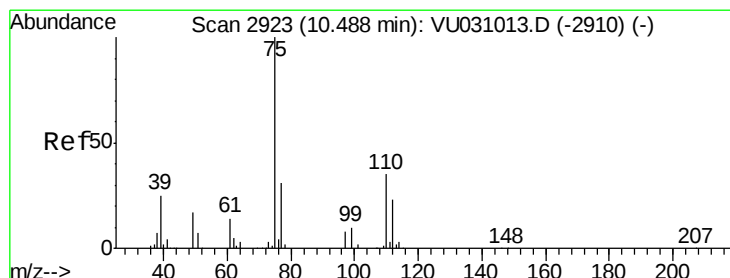
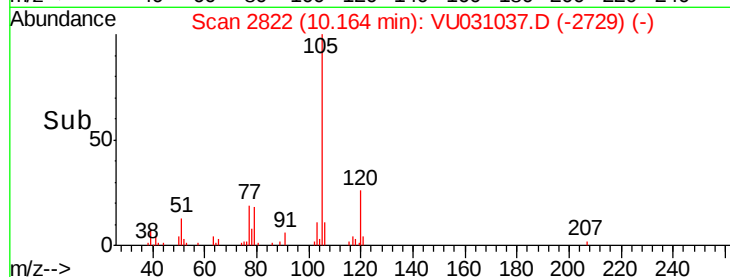
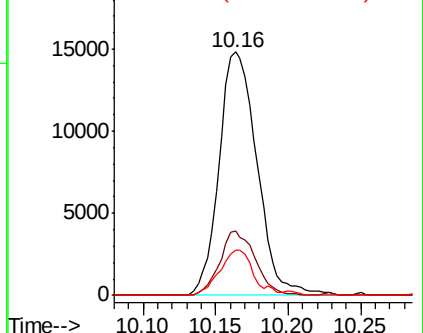
77 15.5 13.4 20.2



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): V



#59

1,2,3-Trichloropropane

Concen: 5.216 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU031037.D

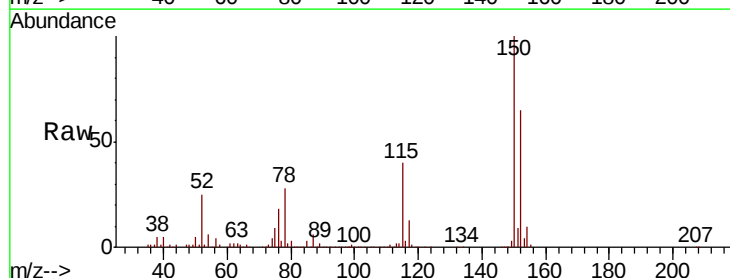
Acq: 11 Apr 2019 01:17

Tgt Ion: 75 Resp: 28383

Ion Ratio Lower Upper

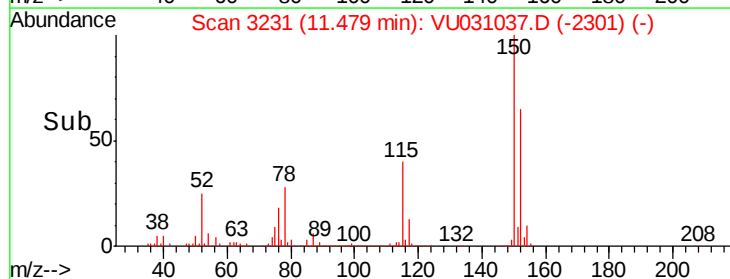
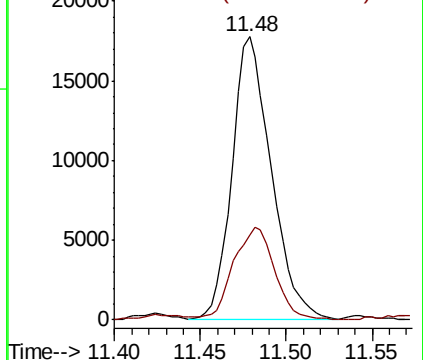
75 100

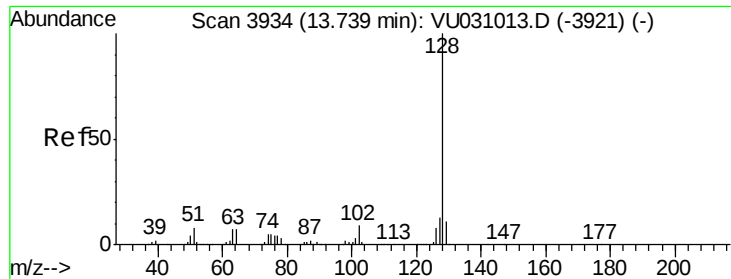
77 32.3 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#69

Naphthalene

Concen: 18.203 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031037.D

Acq: 11 Apr 2019 01:17

Instrument :

MSVOA_U

ClientSampleId :

DB6Z8

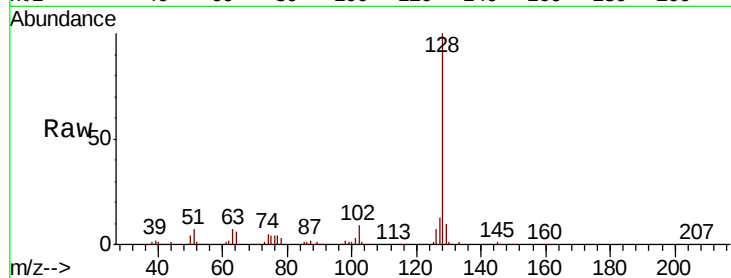
Tot Ion:128 Resp: 250621

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

200000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

