

Data File : VU031967.D
Acq On : 13 May 2019 13:18
Operator : JC/SP
Sample : K2739-09MS
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
DB886MS

Quant Time: May 14 02:42:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue May 14 02:38:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	571645	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	577295	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	267713	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	114175	2.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	58.60%
7) Chloroethane-d5	1.67	69	121269	3.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.40%
11) 1,1-Dichloroethene-d2	2.27	63	285155	3.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.00%
20) 2-Butanone-d5	4.18	46	550060	36.16	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	72.32%
24) Chloroform-d	4.64	84	281561	3.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.40%
26) 1,2-Dichloroethane-d4	5.31	65	152499	3.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	62.80%#
32) Benzene-d6	5.33	84	551295	3.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.60%
36) 1,2-Dichloropropane-d6	6.33	67	199042	3.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	73.40%
41) Toluene-d8	7.56	98	539546	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.40%
43) trans-1,3-Dichloropropene-	7.85	79	74077	3.89	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.80%
46) 2-Hexanone-d5	8.31	63	459470	47.71	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.42%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	181362	4.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.80%
64) 1,2-Dichlorobenzene-d4	11.85	152	205791	4.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.00%

Target Compounds

						Qvalue
3) Chloromethane	1.33	50	24052	0.307	ug/L #	76
8) Chloroethane	1.63	64	7555	0.200	ug/L #	51
12) 1,1-Dichloroethene	2.28	96	197842	5.092	ug/L #	66
13) Acetone	2.32	43	40457	3.894	ug/L	89
15) Methyl Acetate	2.70	43	59707	2.228	ug/L #	59
18) trans-1,2-Dichloroethene	2.98	96	9921	0.237	ug/L	80
22) cis-1,2-Dichloroethene	4.22	96	20233	0.402	ug/L	82
25) Chloroform	4.72	83	20385	0.201	ug/L	77
30) Cyclohexane	4.98	56	658153	7.596	ug/L	92
33) Benzene	5.38	78	881356	4.379	ug/L	100
34) Trichloroethene	6.18	95	222153	4.377	ug/L	93
35) Methylcyclohexane	6.41	83	1756343	24.094	ug/L	93
37) 1,2-Dichloropropane	6.40	63	18016	0.313	ug/L #	39
38) Bromodichloromethane	6.73	83	13309	0.194	ug/L #	52
42) Toluene	7.63	91	986829	4.965	ug/L	97
45) 1,1,2-Trichloroethane	8.04	97	466254	13.661	ug/L #	17
51) Chlorobenzene	9.12	112	568861	4.815	ug/L	95

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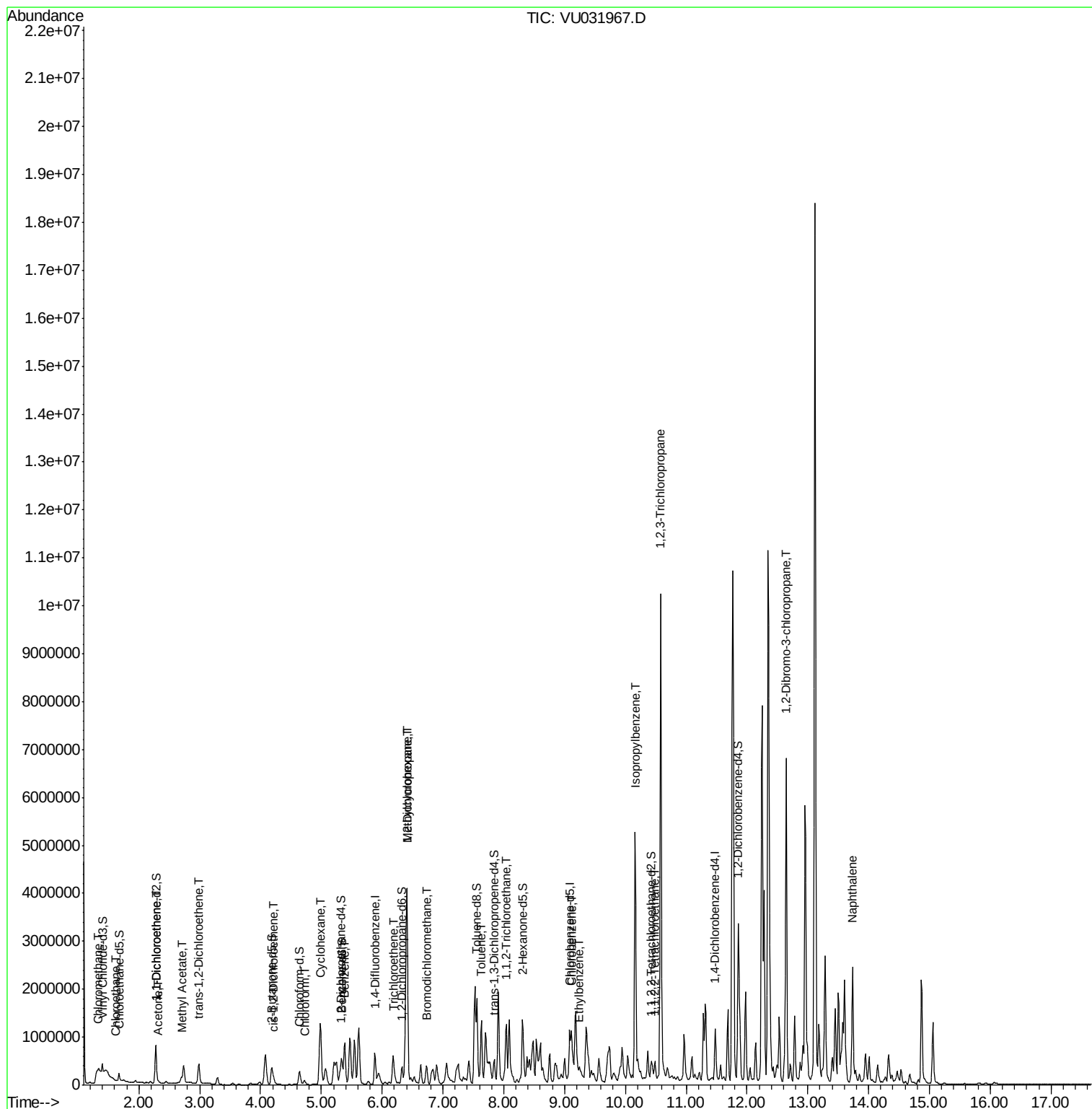
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.25	91	76785	0.370	ug/L	97
56) Isopropylbenzene	10.16	105	3442373	18.218	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.49	83	31982	0.702	ug/L #	35
59) 1,2,3-Trichloropropane	10.58	75	47561	1.395	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.65	75	29550	3.790	ug/L #	20
69) Naphthalene	13.74	128	1801403	22.012	ug/L #	97

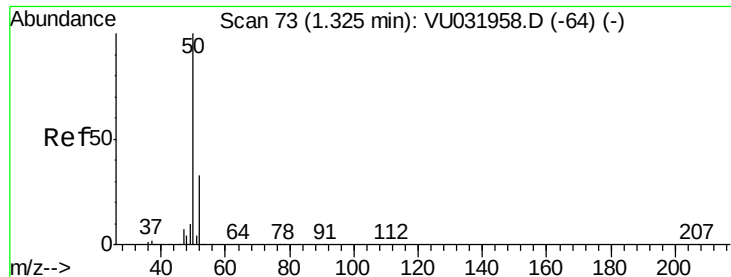
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.307 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU031967.D

Acq: 13 May 2019 13:18

Instrument :

MSVOA_U

ClientSampleId :

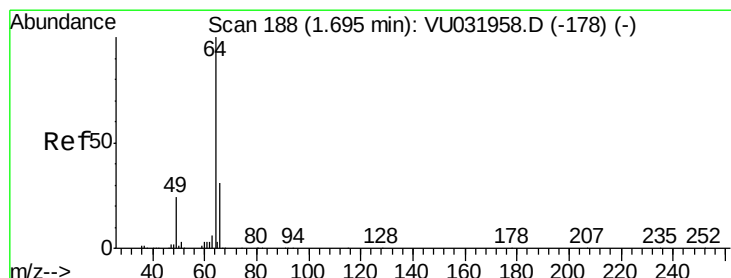
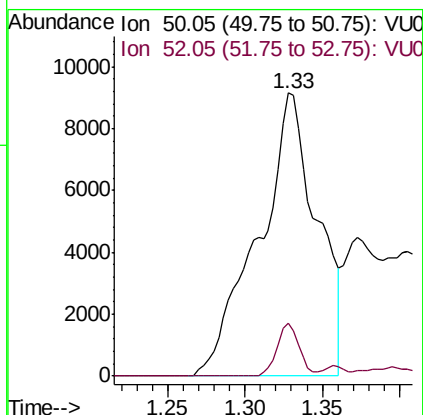
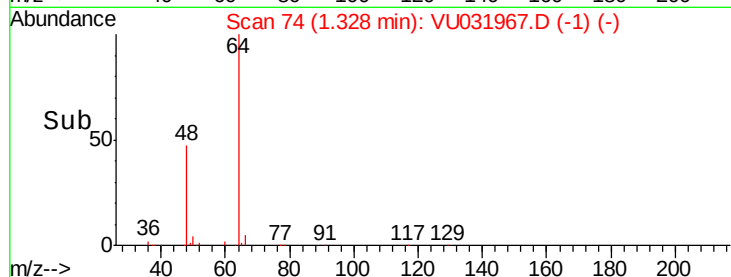
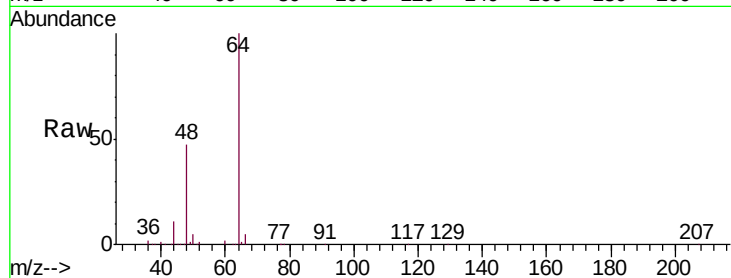
DB886MS

Tgt Ion: 50 Resp: 24052

Ion Ratio Lower Upper

50 100

52 18.9 22.5 41.7#



#8

Chloroethane

Concen: 0.200 ug/L

RT: 1.63 min Scan# 169

Delta R.T. -0.06 min

Lab File: VU031967.D

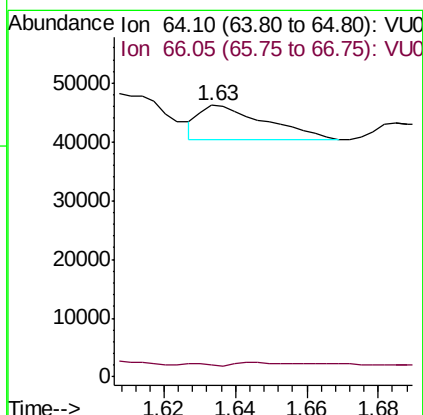
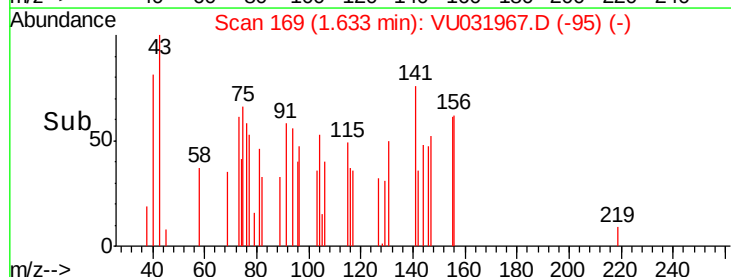
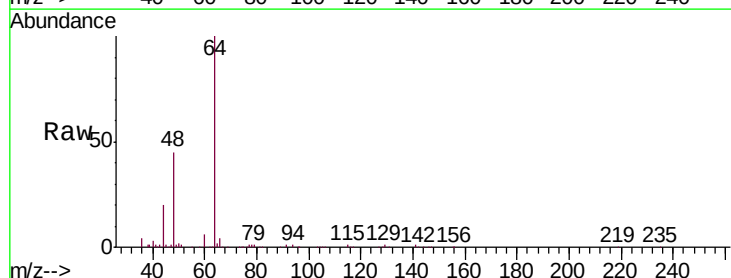
Acq: 13 May 2019 13:18

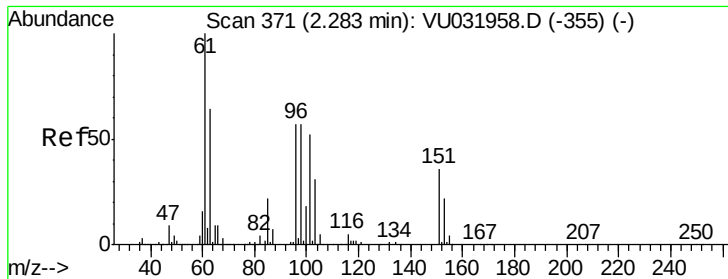
Tgt Ion: 64 Resp: 7555

Ion Ratio Lower Upper

64 100

66 4.5 21.9 40.7#

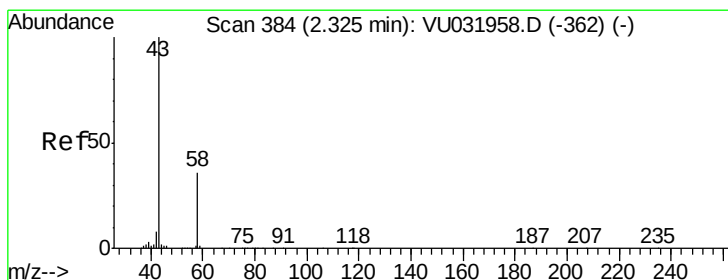
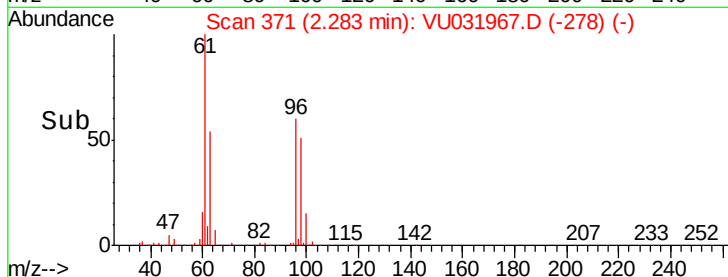
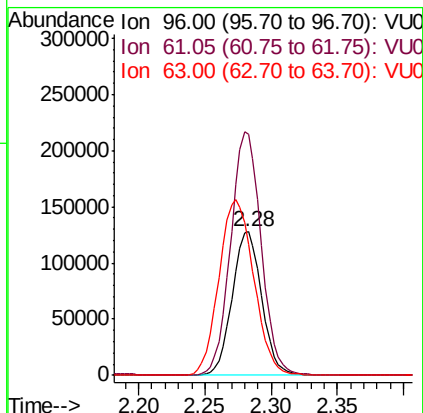
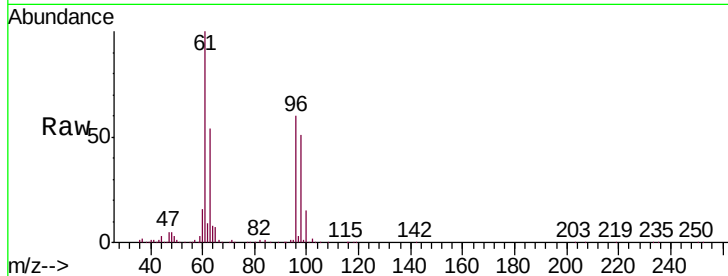




#12
 1,1-Dichloroethene
 Concen: 5.092 ug/L
 RT: 2.28 min Scan# 371
 Delta R.T. -0.00 min
 Lab File: VU031967.D
 Acq: 13 May 2019 13:18

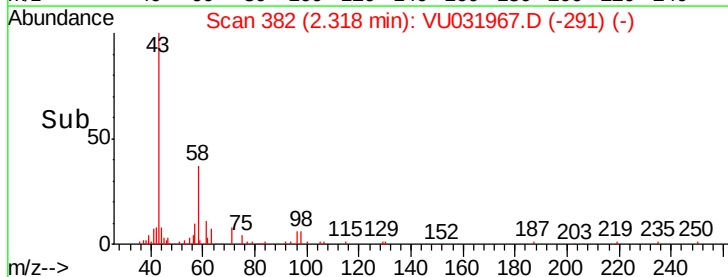
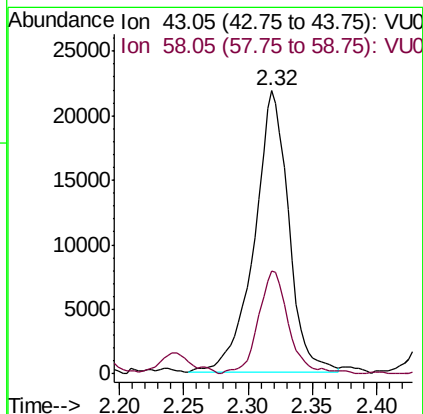
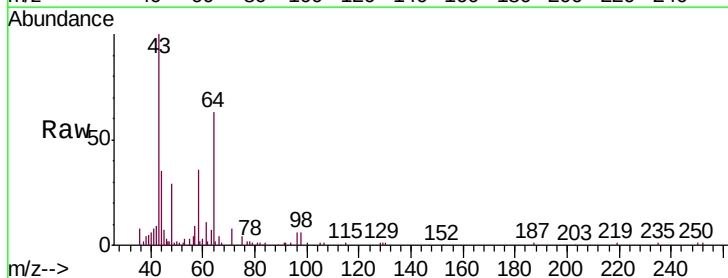
Instrument :
 MSVOA_U
 ClientSampleId :
 DB886MS

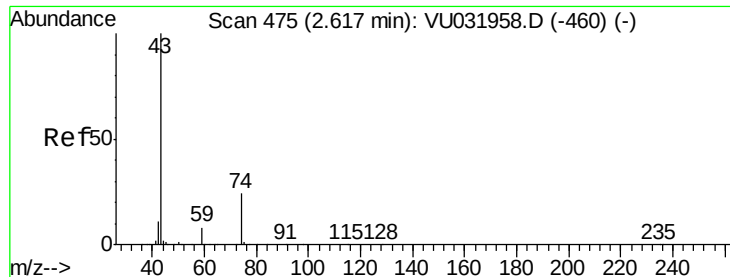
Tgt Ion: 96 Resp: 197842
 Ion Ratio Lower Upper
 96 100
 61 167.9 149.0 276.6
 63 90.8 99.8 185.4#



#13
 Acetone
 Concen: 3.894 ug/L
 RT: 2.32 min Scan# 382
 Delta R.T. -0.01 min
 Lab File: VU031967.D
 Acq: 13 May 2019 13:18

Tgt Ion: 43 Resp: 40457
 Ion Ratio Lower Upper
 43 100
 58 32.5 0.0 53.6

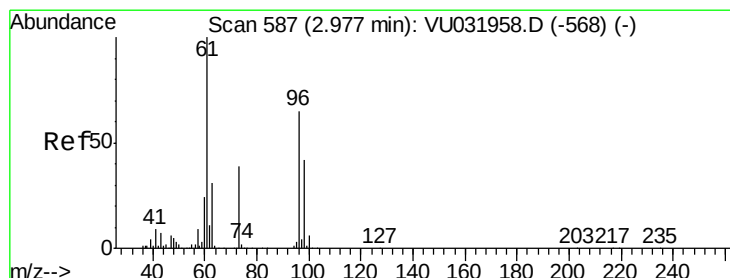
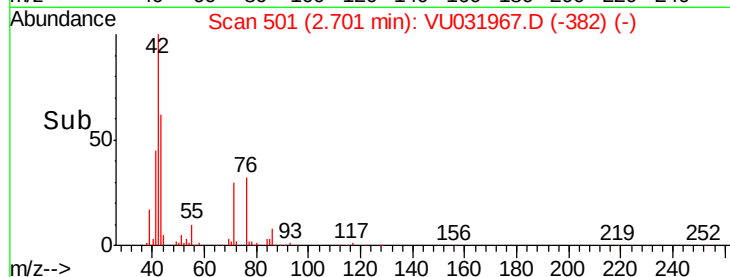
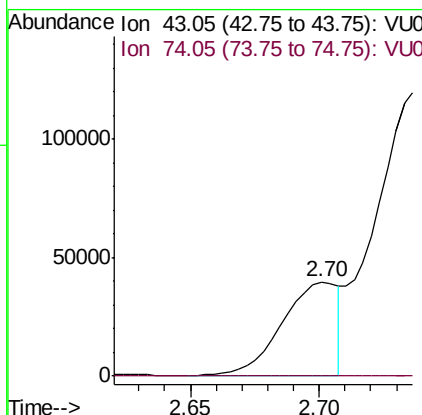
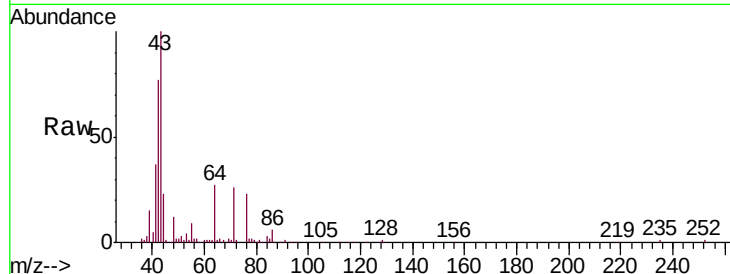




#15
Methyl Acetate
Concen: 2.228 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.08 min
Lab File: VU031967.D
Acq: 13 May 2019 13:18

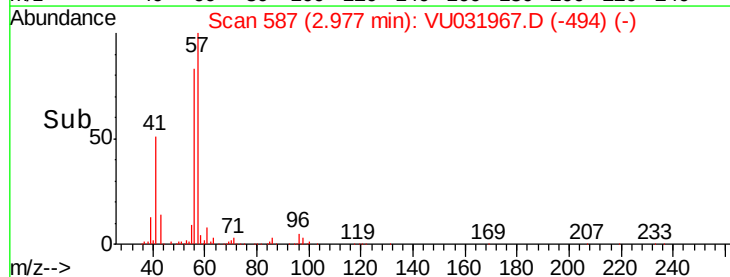
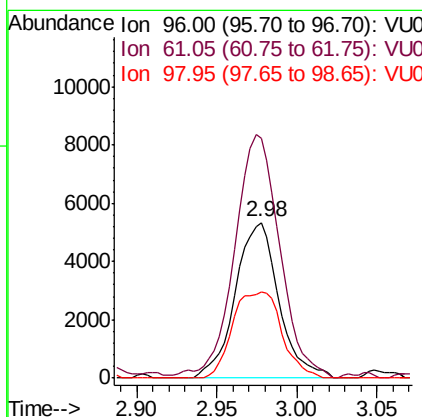
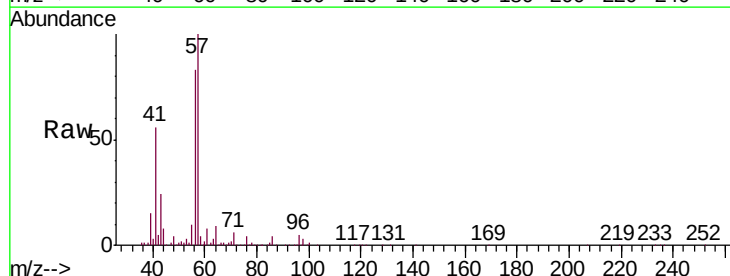
Instrument :
MSVOA_U
ClientSampleId :
DB886MS

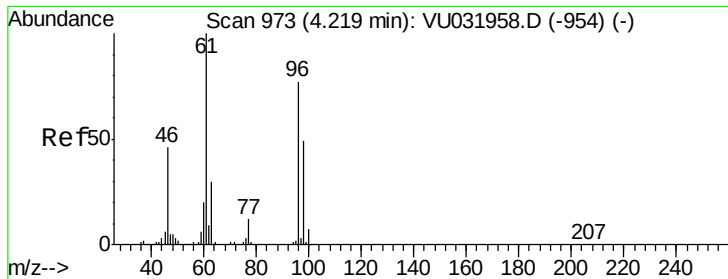
Tgt Ion: 43 Resp: 59707
Ion Ratio Lower Upper
43 100
74 0.1 14.7 22.1#



#18
trans-1,2-Dichloroethene
Concen: 0.237 ug/L
RT: 2.98 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU031967.D
Acq: 13 May 2019 13:18

Tgt Ion: 96 Resp: 9921
Ion Ratio Lower Upper
96 100
61 153.8 130.9 243.1
98 55.2 46.2 85.8



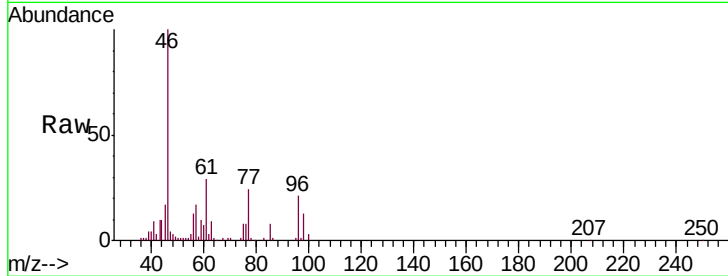


#22

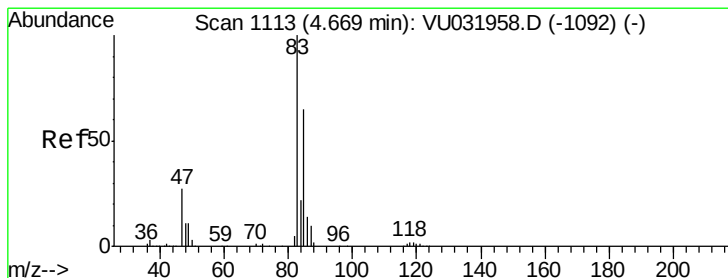
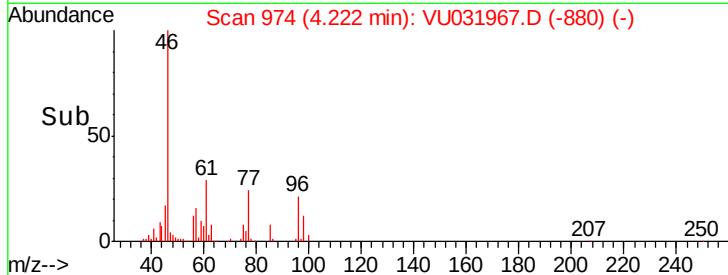
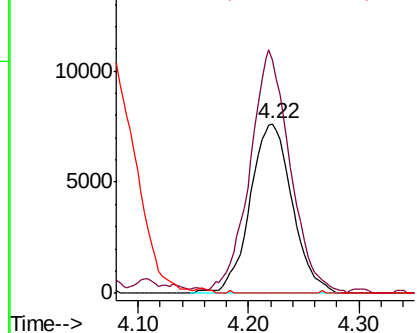
cis-1,2-Dichloroethene
Concen: 0.402 ug/L
RT: 4.22 min Scan# 974
Delta R.T. 0.00 min
Lab File: VU031967.D
Acq: 13 May 2019 13:18

Instrument :
MSVOA_U
ClientSampled :
DB886MS

Tgt Ion: 96 Resp: 20233
Ion Ratio Lower Upper
96 100
61 137.9 113.3 210.5
68 0.0 0.0 0.0



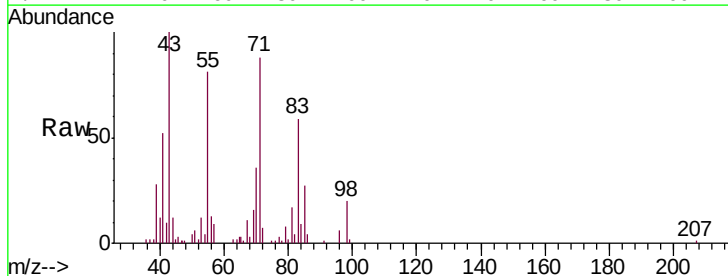
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



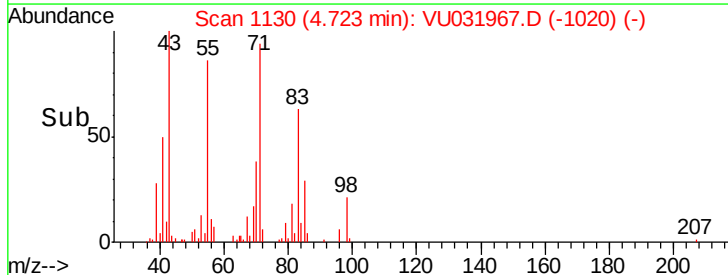
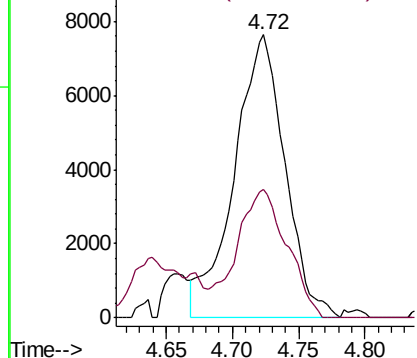
#25

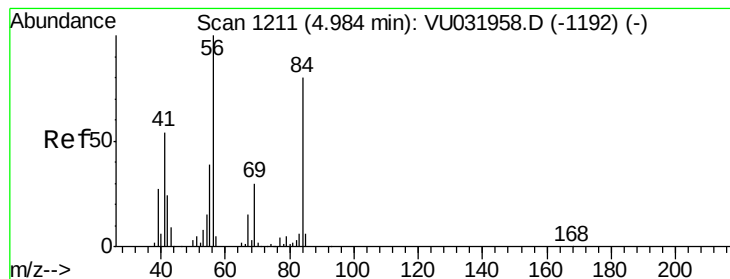
Chloroform
Concen: 0.201 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.05 min
Lab File: VU031967.D
Acq: 13 May 2019 13:18

Tgt Ion: 83 Resp: 20385
Ion Ratio Lower Upper
83 100
85 45.5 44.4 82.5



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0





#30

Cyclohexane

Concen: 7.596 ug/L

RT: 4.98 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VU031967.D

Acq: 13 May 2019 13:18

Instrument :

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ClientSampleId :

DB886MS

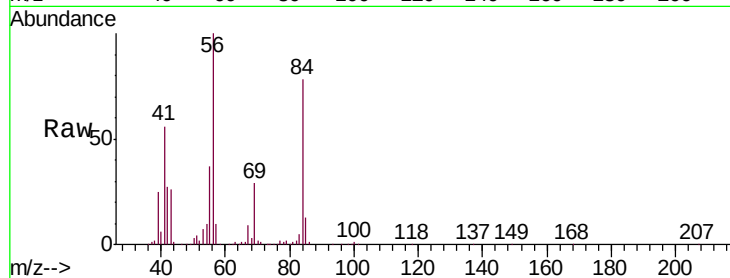
Tgt Ion: 56 Resp: 658153

Ion Ratio Lower Upper

56 100

69 29.8 21.8 32.8

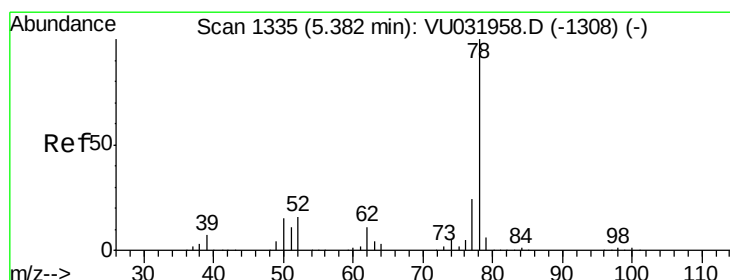
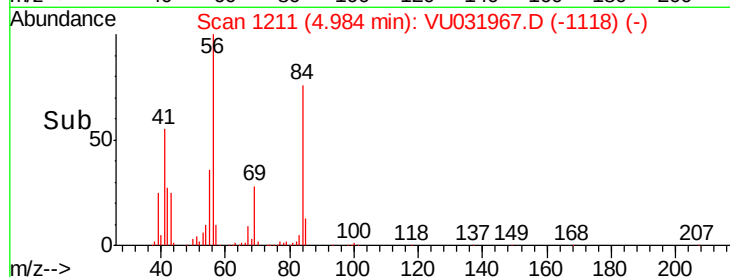
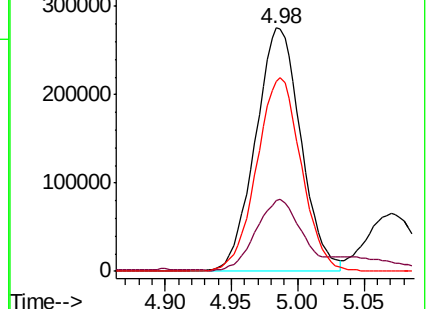
84 78.6 56.8 85.2



Abundance Ion 56.10 (55.80 to 56.80): VU031958.D (-1192) (-)

Ion 69.15 (68.85 to 69.85): VU031958.D (-1192) (-)

Ion 84.15 (83.85 to 84.85): VU031958.D (-1192) (-)



#33

Benzene

Concen: 4.379 ug/L

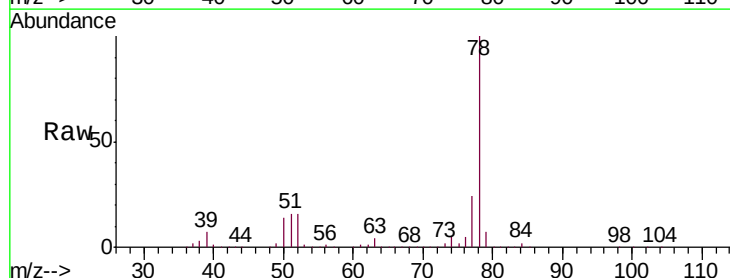
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

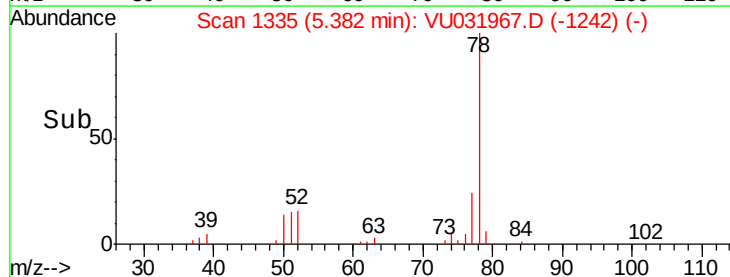
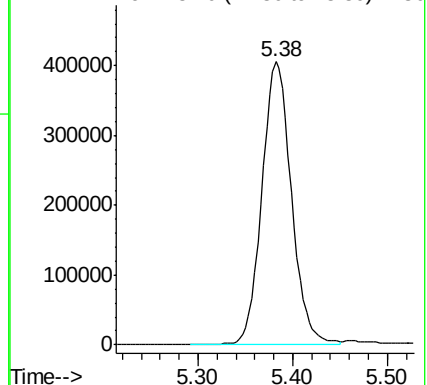
Lab File: VU031967.D

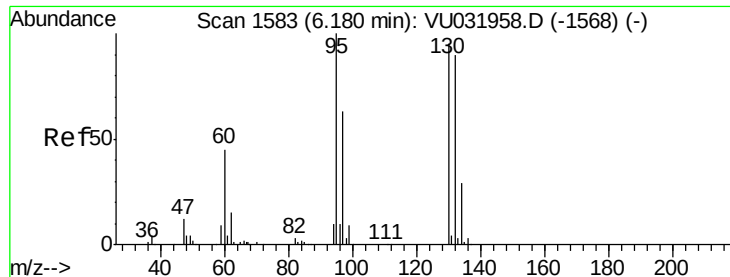
Acq: 13 May 2019 13:18

Tgt Ion: 78 Resp: 881356



Abundance Ion 78.10 (77.80 to 78.80): VU031958.D (-1308) (-)





#34

Trichloroethene

Concen: 4.377 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031967.D

Acq: 13 May 2019 13:18

Instrument :

MSVOA_U

ClientSampleId :

DB886MS

Tgt Ion: 95 Resp: 222153

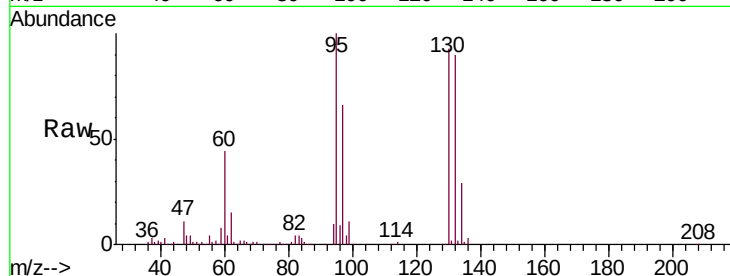
Ion Ratio Lower Upper

95 100

97 66.4 45.8 85.2

132 89.6 56.0 104.0

130 92.9 60.4 112.2

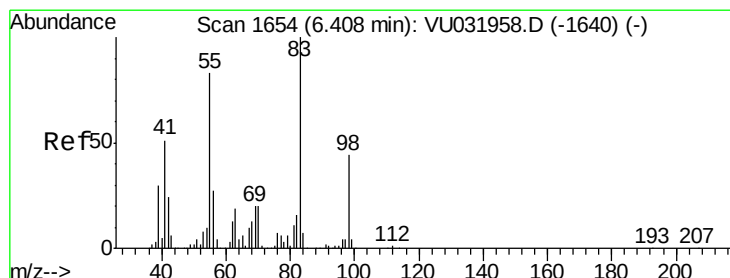
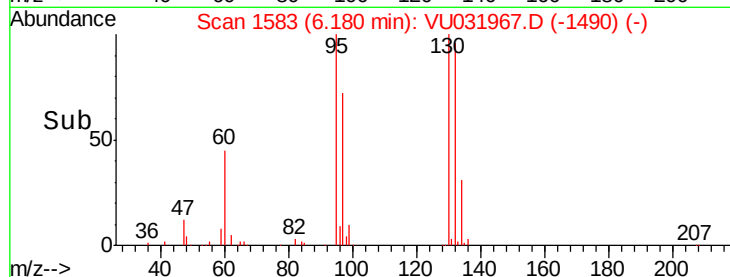
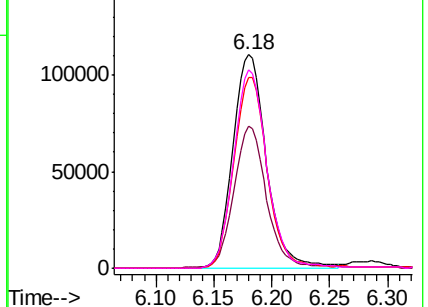


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 24.094 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU031967.D

Acq: 13 May 2019 13:18

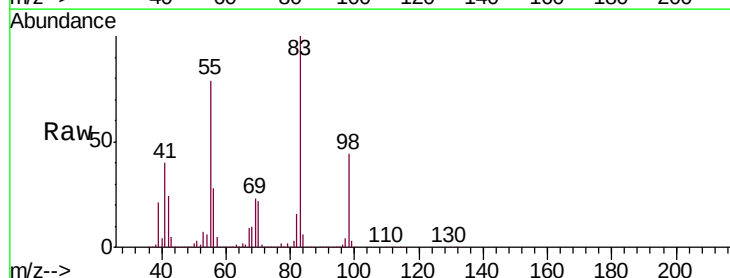
Tgt Ion: 83 Resp: 1756343

Ion Ratio Lower Upper

83 100

55 90.6 79.2 118.8

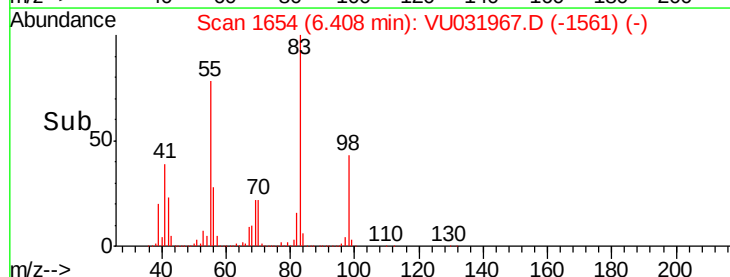
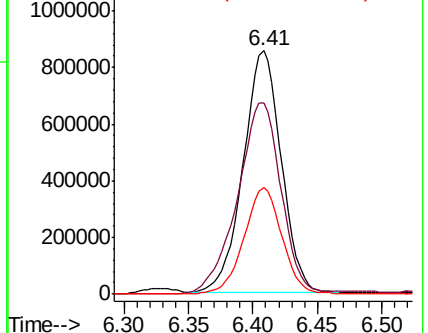
98 43.9 34.0 51.0

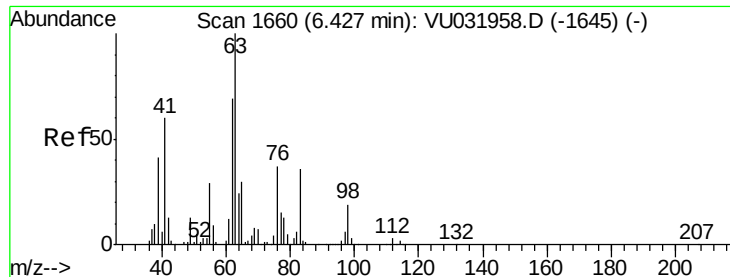


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

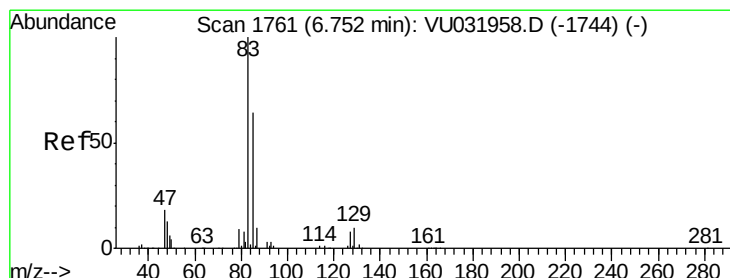
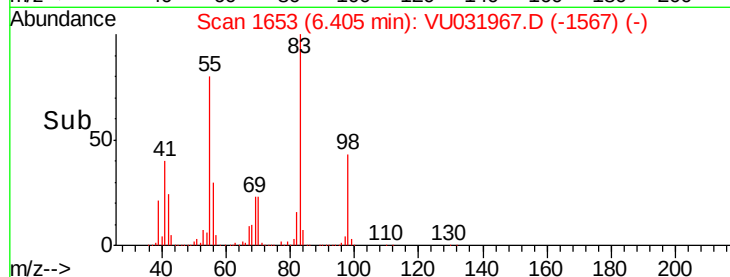
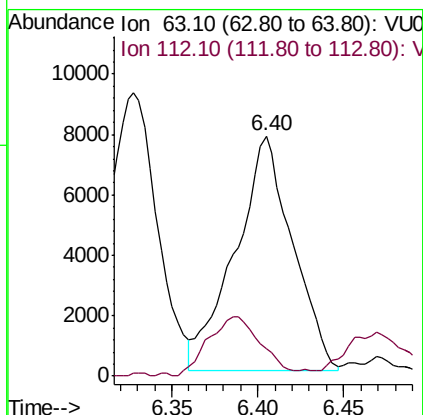
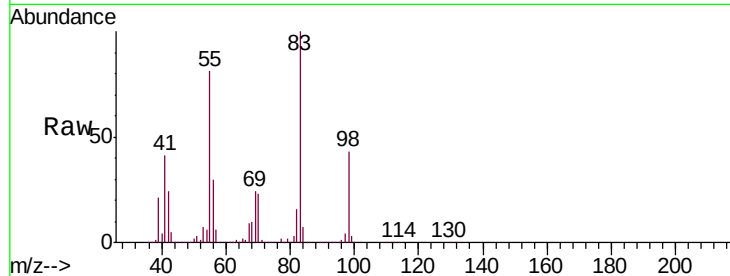




#37
 1,2-Dichloropropane
 Concen: 0.313 ug/L
 RT: 6.40 min Scan# 1653
 Delta R.T. -0.02 min
 Lab File: VU031967.D
 Acq: 13 May 2019 13:18

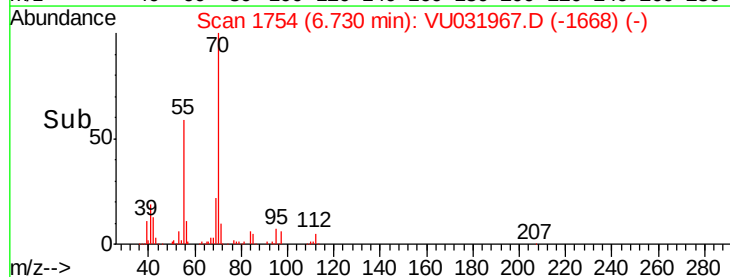
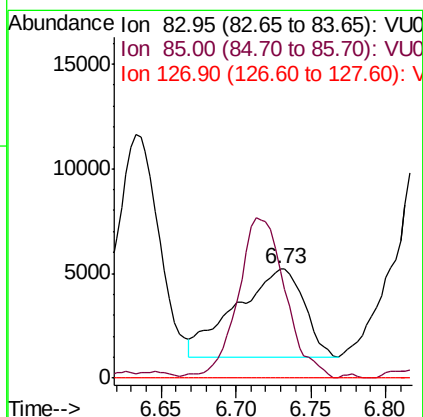
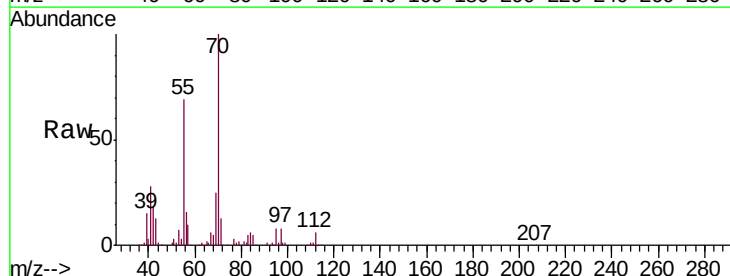
Instrument :
 MSVOA_U
 ClientSampleId :
 DB886MS

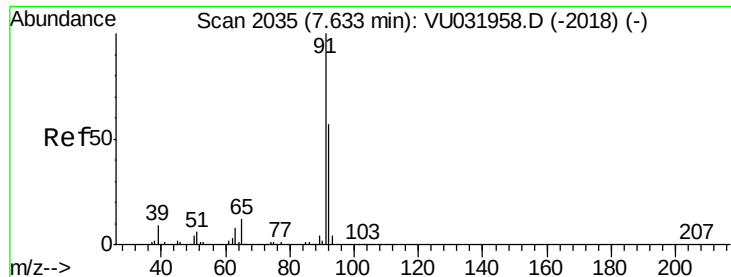
Tgt Ion: 63 Resp: 18016
 Ion Ratio Lower Upper
 63 100
 112 23.4 2.5 3.7#



#38
 Bromodichloromethane
 Concen: 0.194 ug/L
 RT: 6.73 min Scan# 1754
 Delta R.T. -0.02 min
 Lab File: VU031967.D
 Acq: 13 May 2019 13:18

Tgt Ion: 83 Resp: 13309
 Ion Ratio Lower Upper
 83 100
 85 97.1 41.3 76.7#
 127 0.0 5.8 8.6#





#42

Toluene

Concen: 4.965 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031967.D

Acq: 13 May 2019 13:18

Instrument :

MSVOA_U

ClientSampleId :

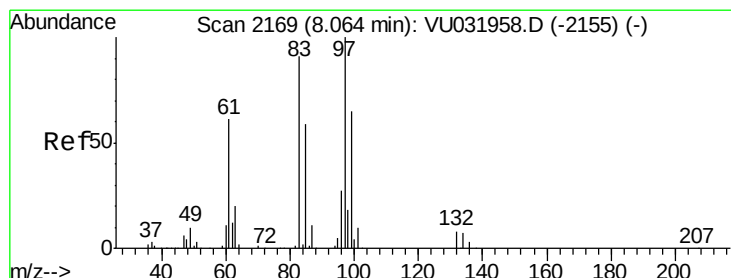
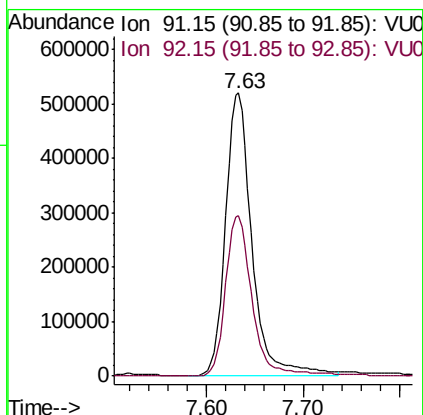
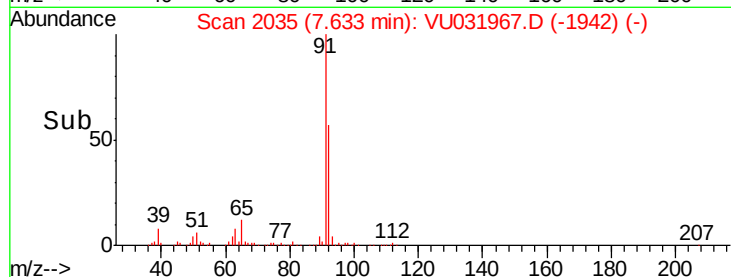
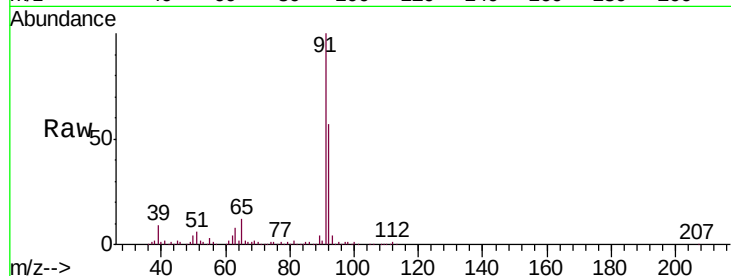
DB886MS

Tgt Ion: 91 Resp: 986829

Ion Ratio Lower Upper

91 100

92 56.5 38.1 70.9



#45

1,1,2-Trichloroethane

Concen: 13.661 ug/L

RT: 8.04 min Scan# 2162

Delta R.T. -0.02 min

Lab File: VU031967.D

Acq: 13 May 2019 13:18

Tgt Ion: 97 Resp: 466254

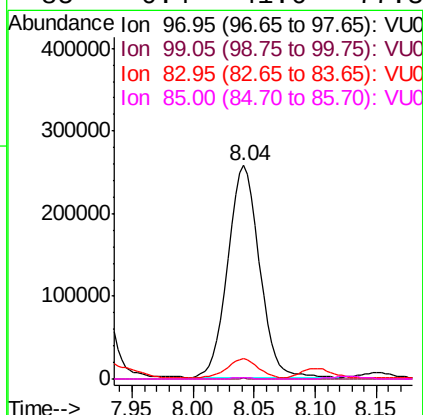
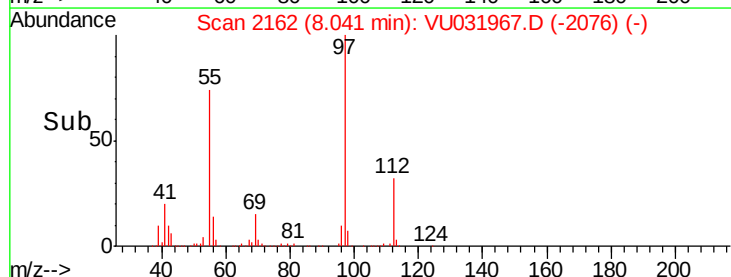
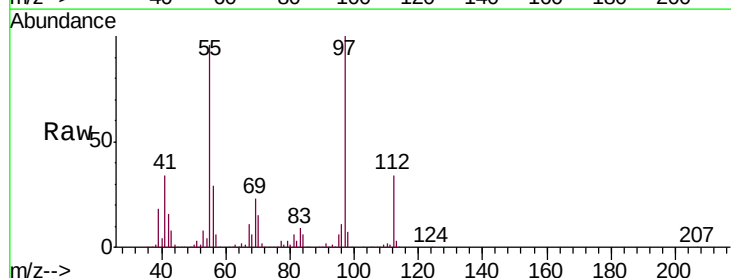
Ion Ratio Lower Upper

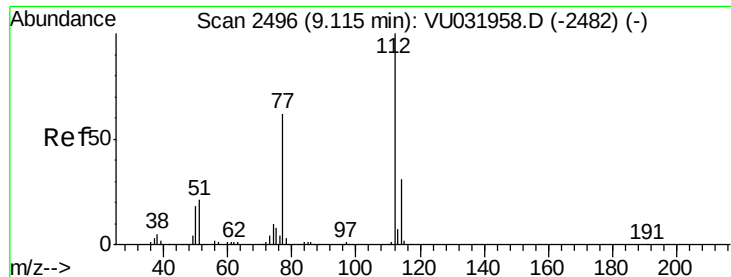
97 100

99 0.4 45.8 85.0#

83 9.4 64.5 119.7#

85 0.4 41.6 77.3#

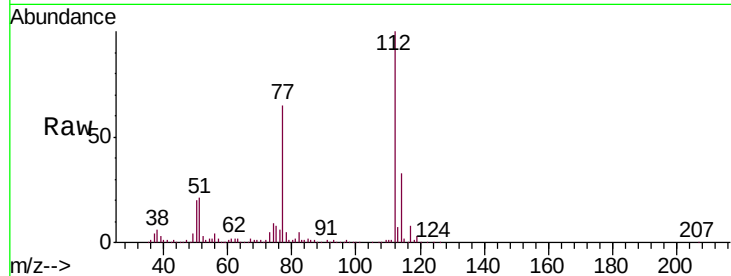




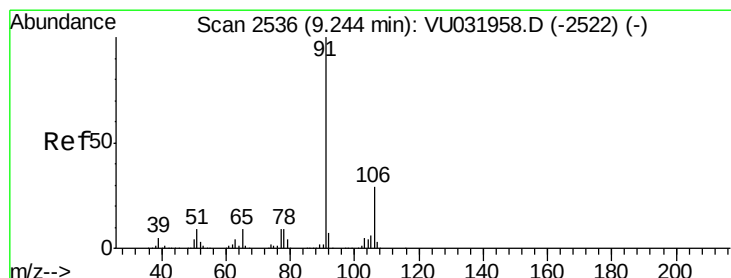
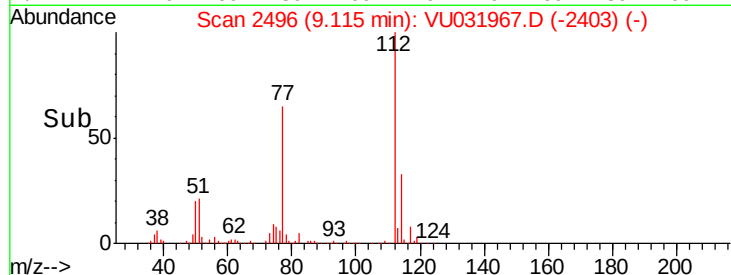
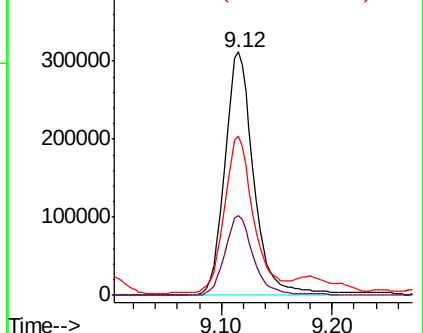
#51
Chlorobenzene
Concen: 4.815 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU031967.D
Acq: 13 May 2019 13:18

Instrument :
MSVOA_U
ClientSampleId :
DB886MS

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	22.5	41.7
77	65.4	56.9	85.3

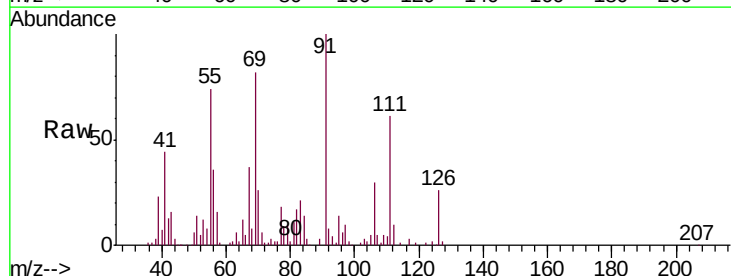


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

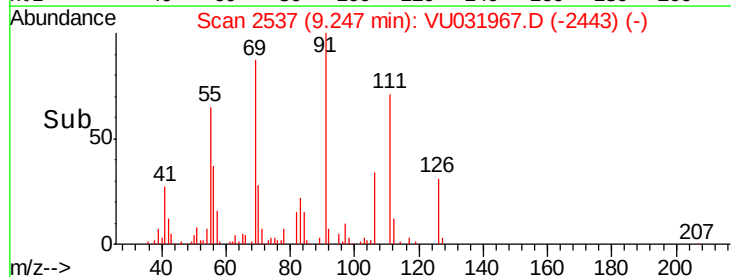
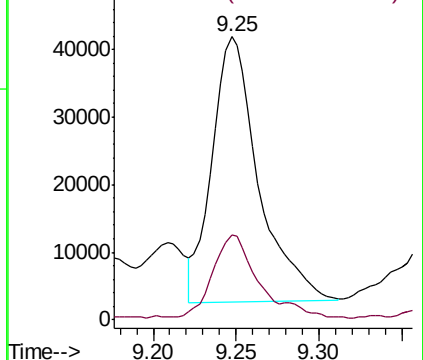


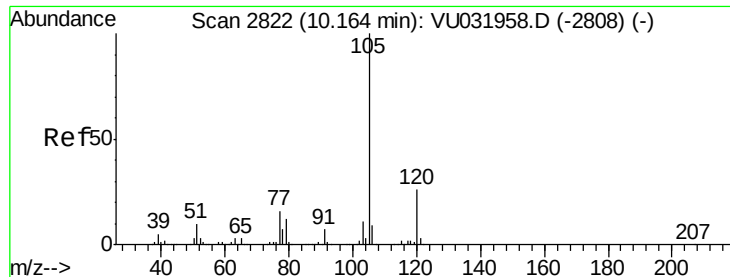
#52
Ethylbenzene
Concen: 0.370 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU031967.D
Acq: 13 May 2019 13:18

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.0	20.0	37.2



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#56

Isopropylbenzene

Concen: 18.218 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031967.D

Acq: 13 May 2019 13:18

Instrument :

MSVOA_U

ClientSampled :

DB886MS

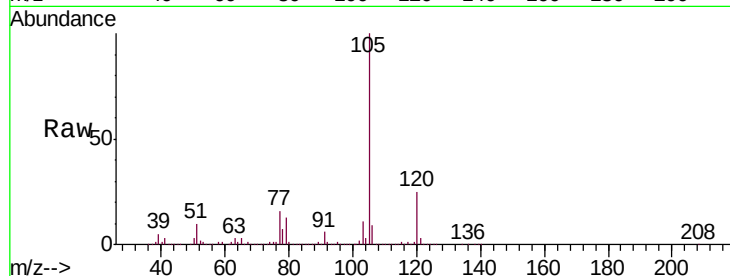
Tgt Ion:105 Resp: 3442373

Ion Ratio Lower Upper

105 100

120 25.7 20.2 30.4

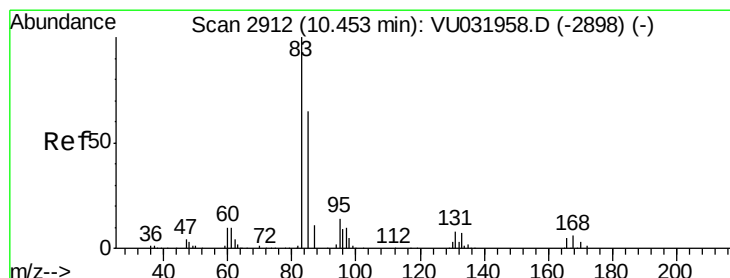
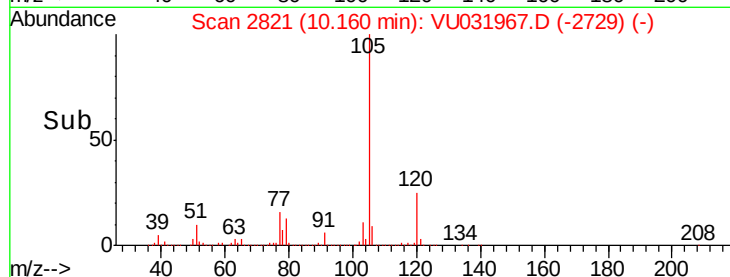
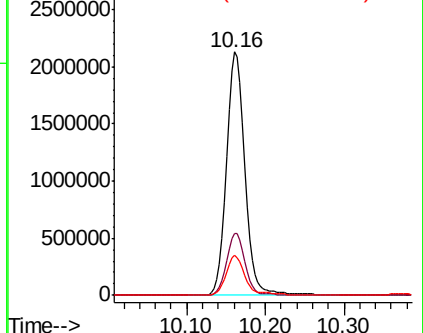
77 15.7 14.8 22.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.702 ug/L

RT: 10.49 min Scan# 2922

Delta R.T. 0.03 min

Lab File: VU031967.D

Acq: 13 May 2019 13:18

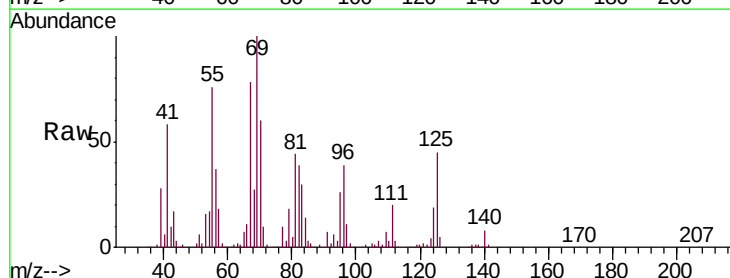
Tgt Ion: 83 Resp: 31982

Ion Ratio Lower Upper

83 100

85 8.6 44.3 82.3#

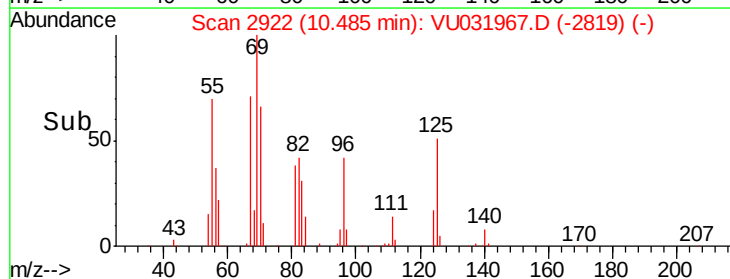
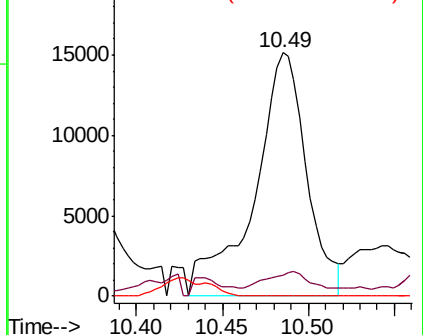
131 0.0 6.0 9.0#

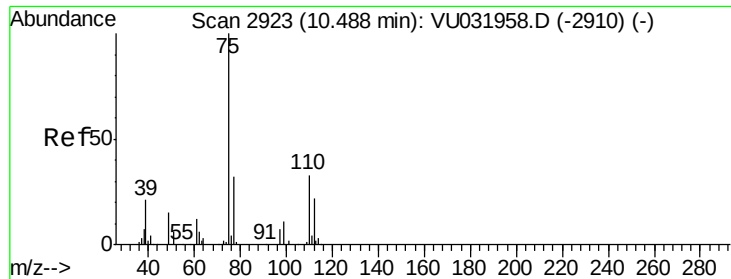


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

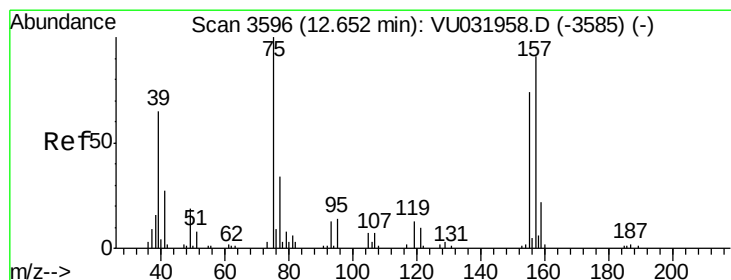
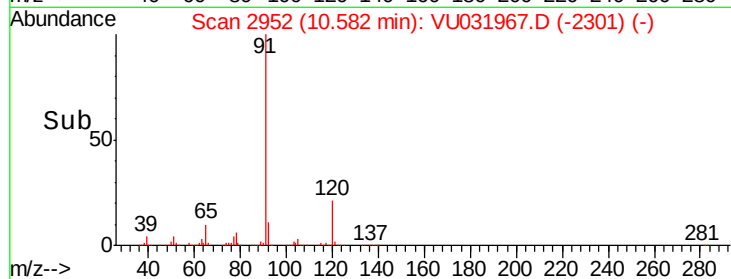
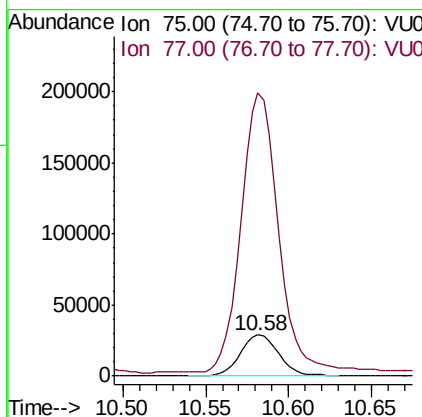
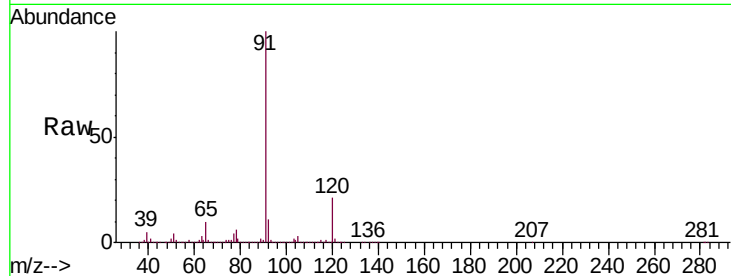




#59
 1,2,3-Trichloropropane
 Concen: 1.395 ug/L
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.09 min
 Lab File: VU031967.D
 Acq: 13 May 2019 13:18

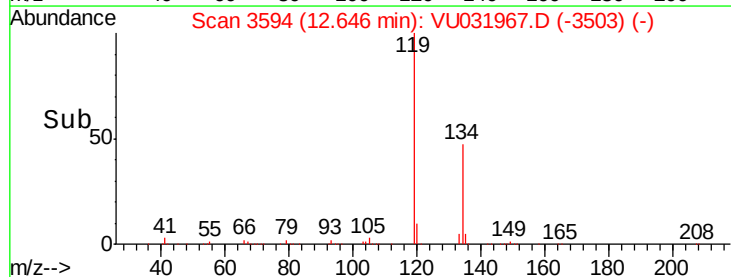
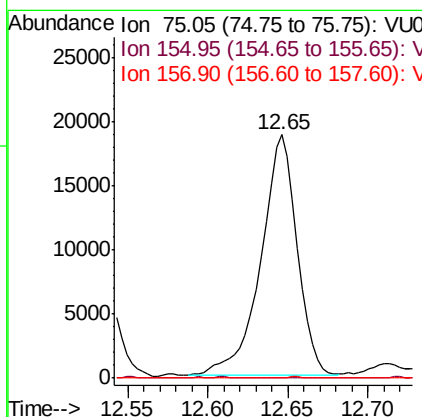
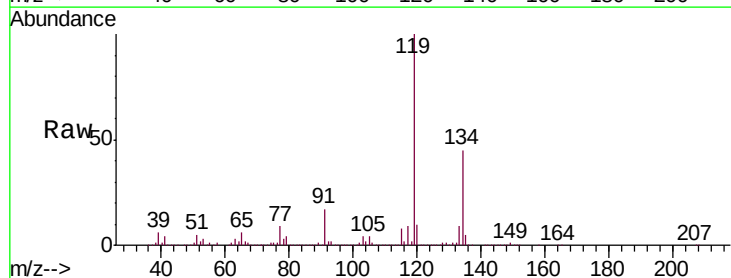
Instrument :
 MSVOA_U
 ClientSampleId :
 DB886MS

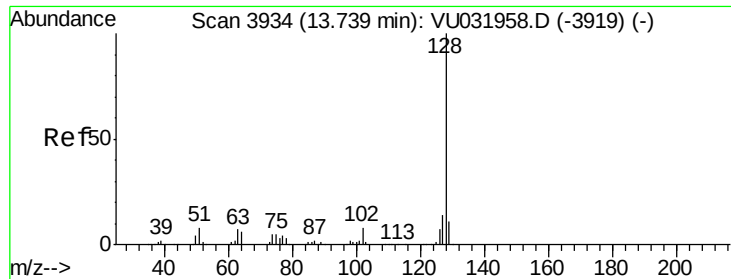
Tgt Ion: 75 Resp: 47561
 Ion Ratio Lower Upper
 75 100
 77 653.8 26.3 39.5#



#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.790 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. -0.01 min
 Lab File: VU031967.D
 Acq: 13 May 2019 13:18

Tgt Ion: 75 Resp: 29550
 Ion Ratio Lower Upper
 75 100
 155 0.0 42.2 63.2#
 157 0.0 54.9 82.3#





#69

Naphthalene

Concen: 22.012 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031967.D

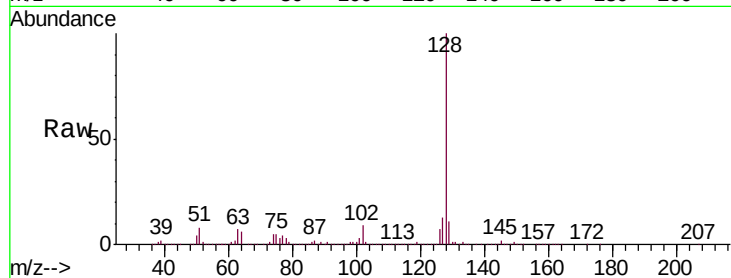
Acq: 13 May 2019 13:18

Instrument :

MSVOA_U

ClientSampleId :

DB886MS



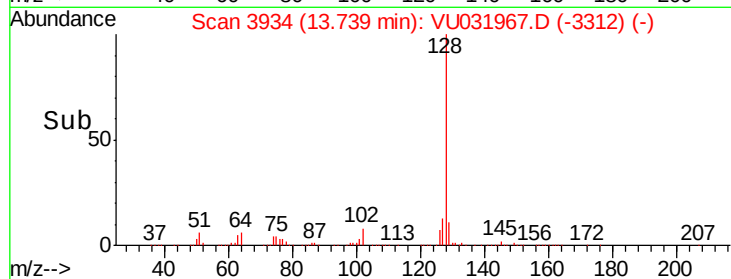
Tgt Ion:128 Resp: 1801403

Ion Ratio Lower Upper

128 100

129 12.2 8.0 12.0#

127 13.5 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

1500000 Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

