

Data File : VU033033.D
Acq On : 25 Jun 2019 01:58
Operator : JC/SP
Sample : K3478-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ETF26

Quant Time: Jun 25 07:01:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 25 06:54:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	184815	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	177901	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	86140	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	56938	45.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.16%
7) Chloroethane-d5	1.68	69	49410	49.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.10%
11) 1,1-Dichloroethene-d2	2.27	63	93707	36.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.66%
21) 2-Butanone-d5	4.17	46	111963	106.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.50%
24) Chloroform-d	4.64	84	121245	49.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.76%
26) 1,2-Dichloroethane-d4	5.30	65	86034	52.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.20%
32) Benzene-d6	5.33	84	239079	51.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.10%
36) 1,2-Dichloropropane-d6	6.32	67	77475	52.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.88%
41) Toluene-d8	7.56	98	217261	50.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.06%
43) trans-1,3-Dichloropropene-	7.84	79	35615	46.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.68%
47) 2-Hexanone-d5	8.31	63	63975	92.74	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.74%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	113114	49.53	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.06%
64) 1,2-Dichlorobenzene-d4	11.85	152	83986	50.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.76%

Target Compounds

						Qvalue
5) Vinyl chloride	1.40	62	41497	24.726	ug/L	96
8) Chloroethane	1.40	64	14486	14.995	ug/L #	60
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	746	0.604	ug/L #	17
12) 1,1-Dichloroethene	2.27	96	741	0.637	ug/L #	1
13) Acetone	2.32	43	750	0.517	ug/L	74
19) 1,1-Dichloroethane	3.44	63	1462	0.608	ug/L #	73
20) cis-1,2-Dichloroethene	4.22	96	166148	120.843	ug/L	94
27) 1,2-Dichloroethane	5.33	62	1523	0.747	ug/L #	77
34) Trichloroethene	6.18	95	7093	5.180	ug/L	95
35) Methylcyclohexane	6.32	83	17315	8.181	ug/L #	18
37) 1,2-Dichloropropane	6.32	63	9459	6.729	ug/L #	88
44) trans-1,3-Dichloropropene	7.85	75	1836	0.893	ug/L #	82
46) Tetrachloroethene	8.22	164	29613	26.392	ug/L	97
48) 2-Hexanone	8.36	43	3195	1.613	ug/L #	72
49) Dibromochloromethane	8.22	129	27648	17.528	ug/L #	12
59) 1,2,3-Trichloropropane	11.48	75	11332	6.040	ug/L	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062419\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Jun 25 06:54:49 2019
Response via : Initial Calibration

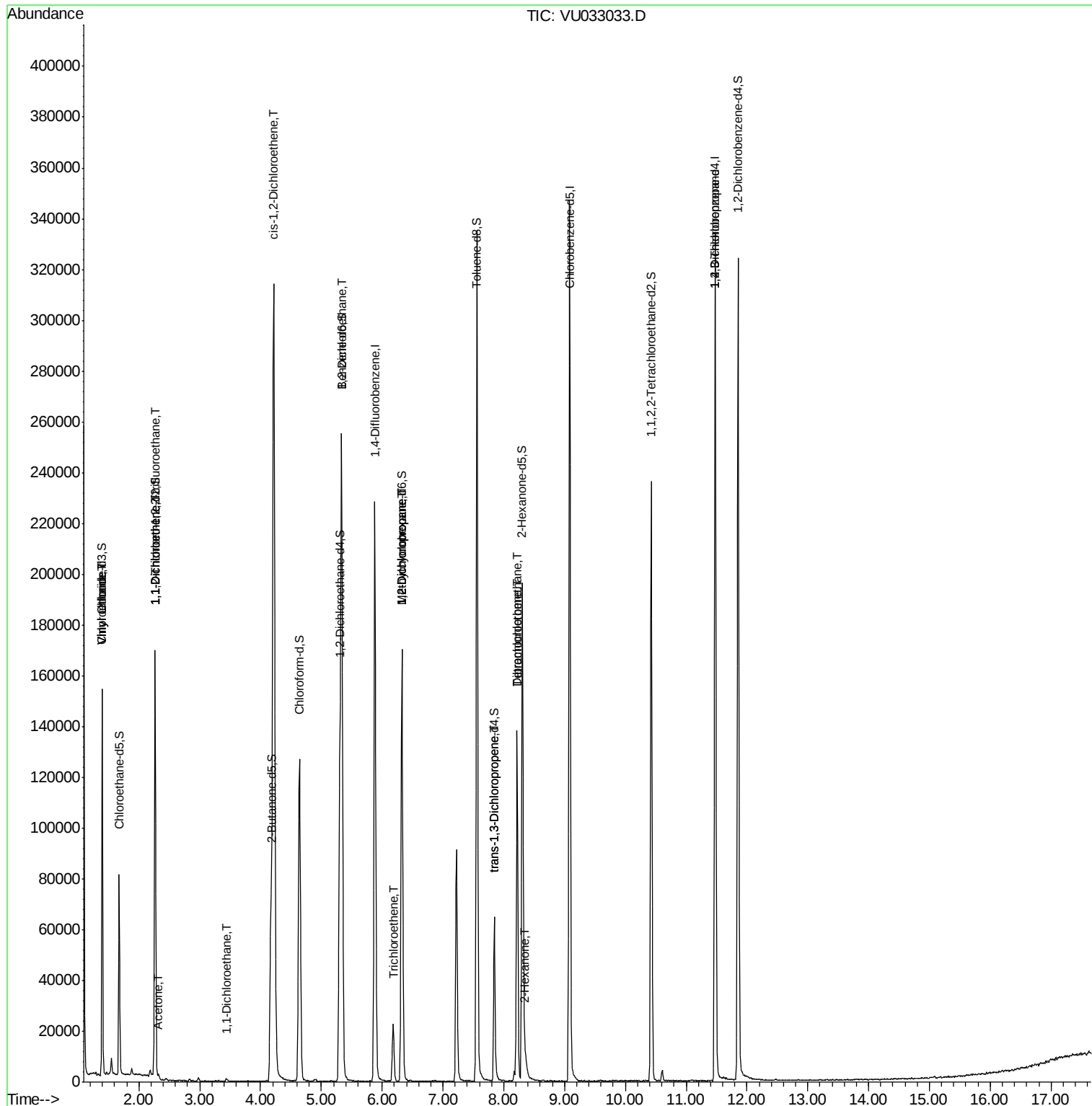
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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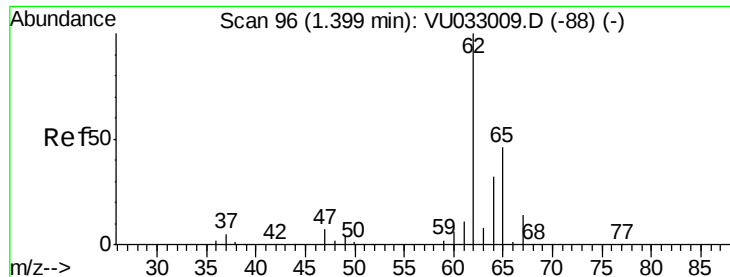
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 24.726 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU033033.D

Acq: 25 Jun 2019 01:58

Instrument :

MSVOA_U

ClientSampleId :

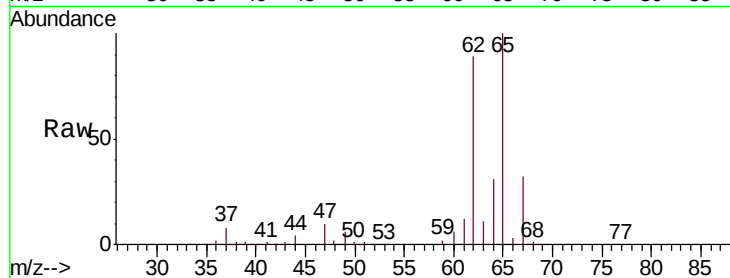
ETF26

Tgt Ion: 62 Resp: 41497

Ion Ratio Lower Upper

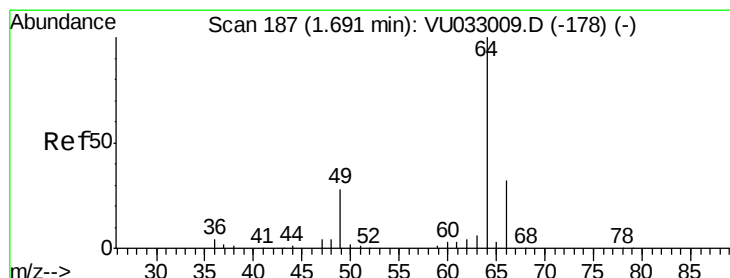
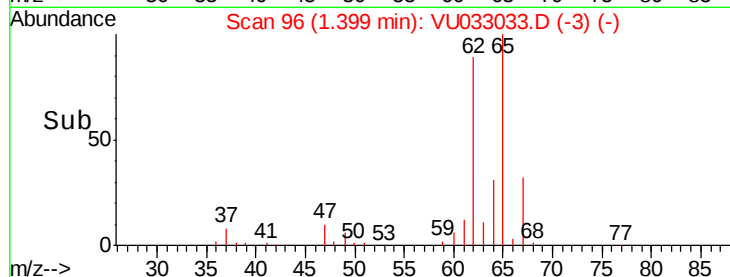
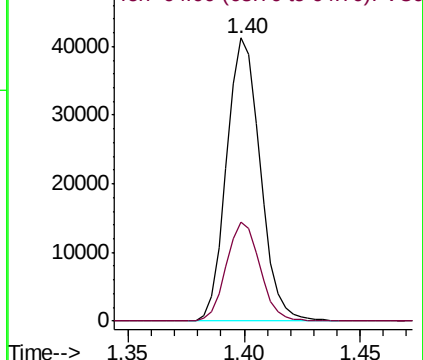
62 100

64 34.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#8

Chloroethane

Concen: 14.995 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.29 min

Lab File: VU033033.D

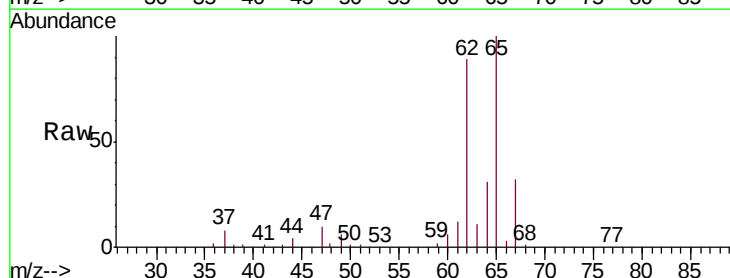
Acq: 25 Jun 2019 01:58

Tgt Ion: 64 Resp: 14486

Ion Ratio Lower Upper

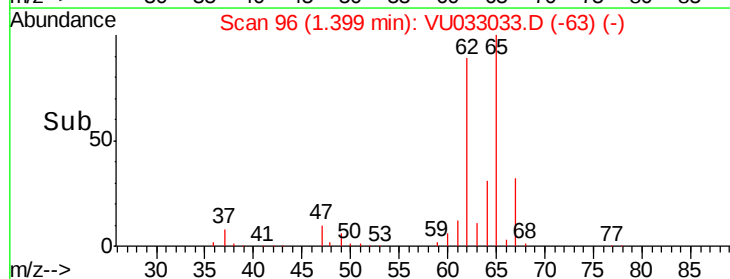
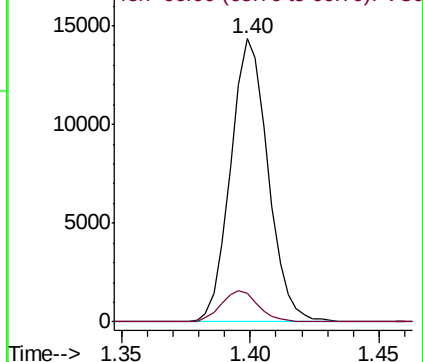
64 100

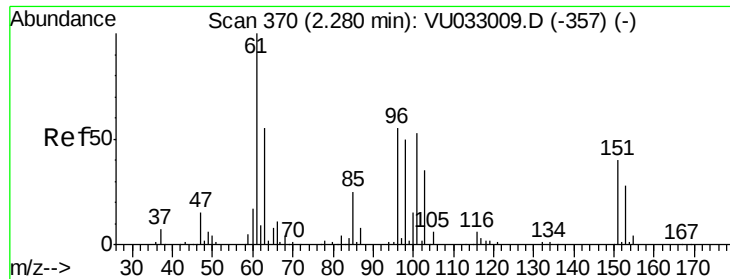
66 9.9 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#10

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

Concen: 0.604 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU033033.D

Acq: 25 Jun 2019 01:58

Instrument :

MSVOA_U

ClientSampleId :

ETF26

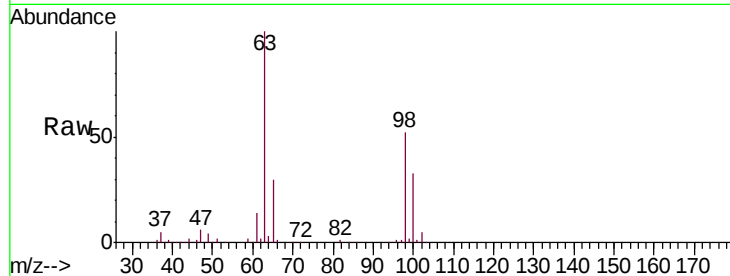
Tgt Ion: 101 Resp: 746

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

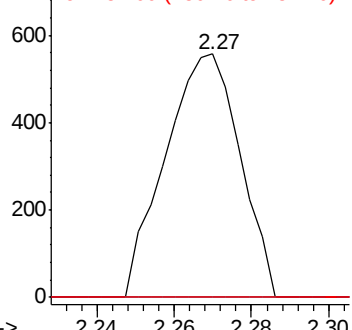
151 0.0 63.6 95.4#



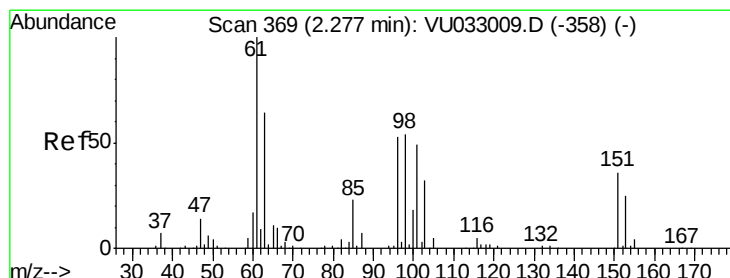
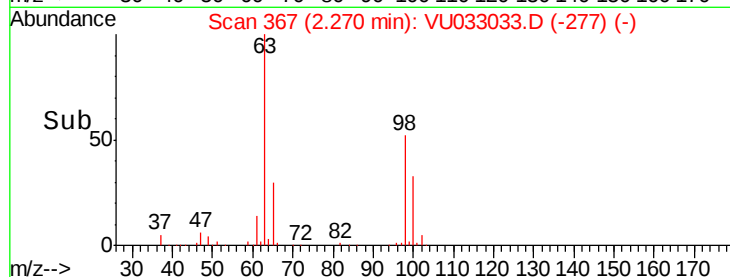
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VUC

Ion 151.00 (150.70 to 151.70): V



Time-->



#12

1,1-Dichloroethene

Concen: 0.637 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU033033.D

Acq: 25 Jun 2019 01:58

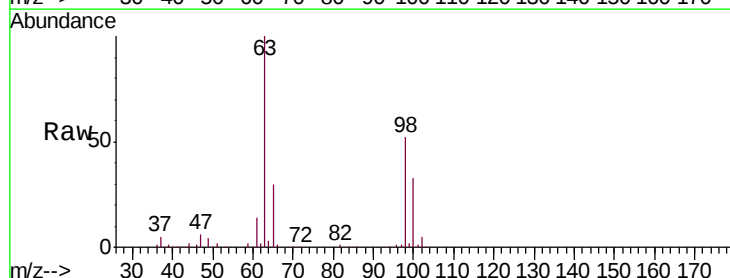
Tgt Ion: 96 Resp: 741

Ion Ratio Lower Upper

96 100

61 1253.1 131.0 243.4#

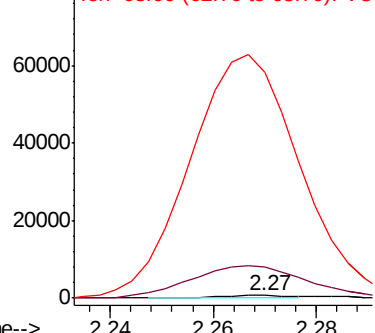
63 9241.3 101.0 187.6#



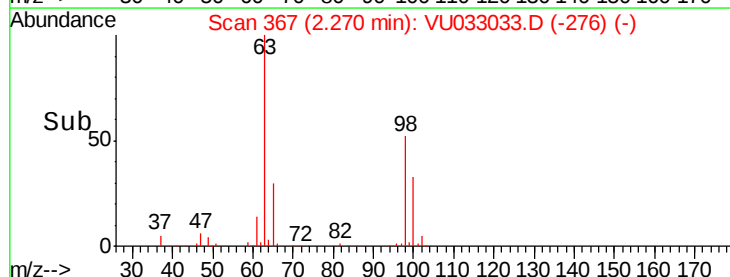
Abundance Ion 96.00 (95.70 to 96.70): VUC

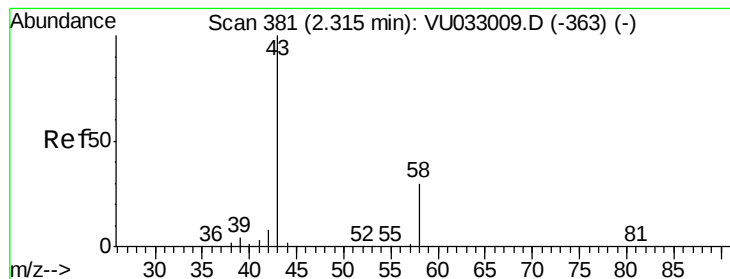
Ion 61.00 (60.70 to 61.70): VUC

Ion 63.00 (62.70 to 63.70): VUC



Time-->





#13

Acetone

Concen: 0.517 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU033033.D

Acq: 25 Jun 2019 01:58

Instrument :

MSVOA_U

ClientSampleId :

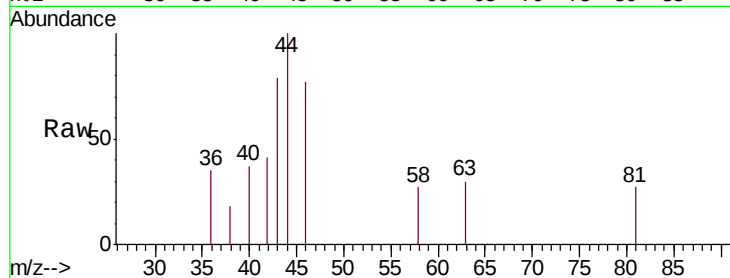
ETF26

Tgt Ion: 43 Resp: 750

Ion Ratio Lower Upper

43 100

58 16.4 0.0 60.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

500

400

300

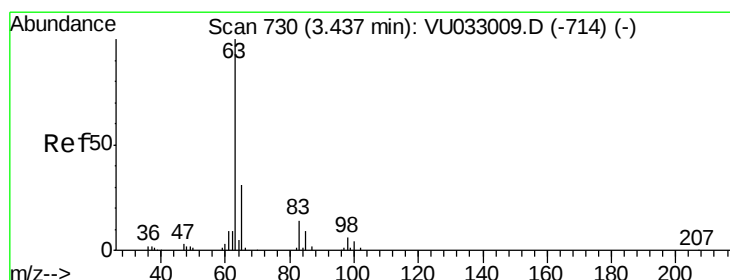
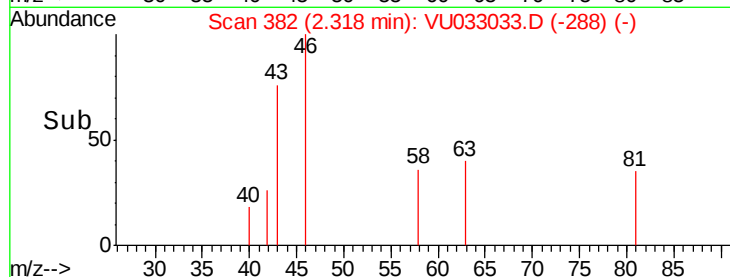
200

100

0

Time-->

2.28 2.30 2.32 2.34 2.36



#19

1,1-Dichloroethane

Concen: 0.608 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU033033.D

Acq: 25 Jun 2019 01:58

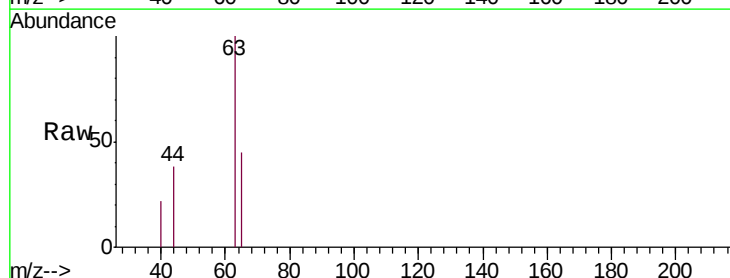
Tgt Ion: 63 Resp: 1462

Ion Ratio Lower Upper

63 100

65 44.9 22.0 41.0#

83 0.0 9.5 17.7#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

800

600

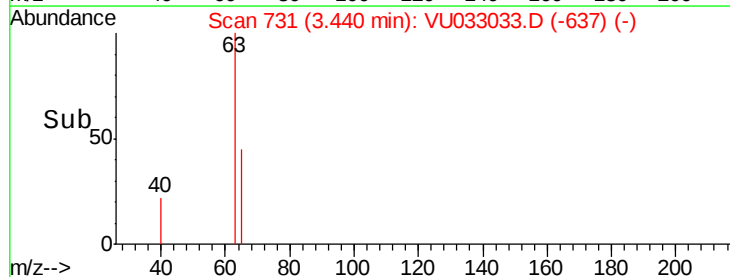
400

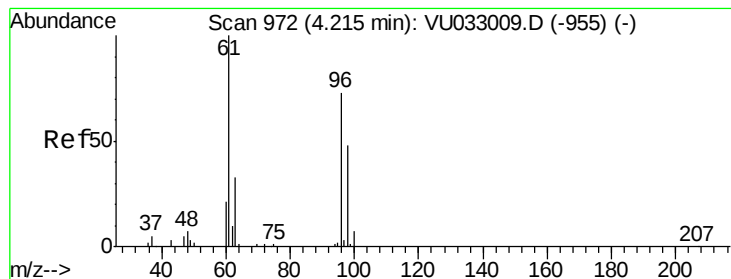
200

0

Time-->

3.40 3.45



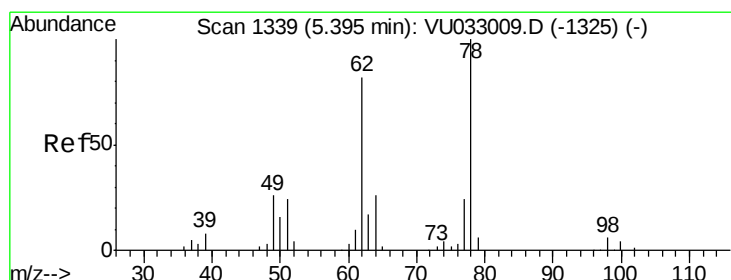
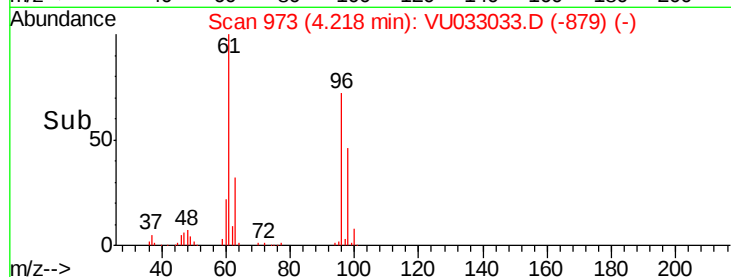
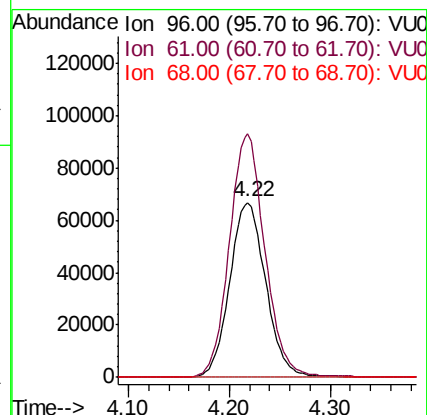
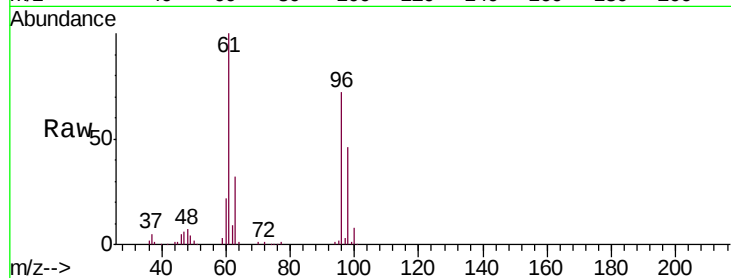


#20

cis-1,2-Dichloroethene
 Concen: 120.843 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU033033.D
 Acq: 25 Jun 2019 01:58

Instrument :
 MSVOA_U
 ClientSampleId :
 ETF26

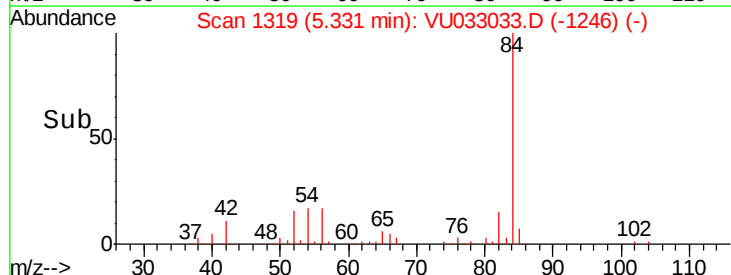
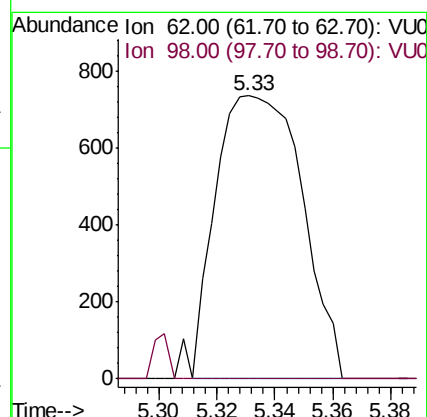
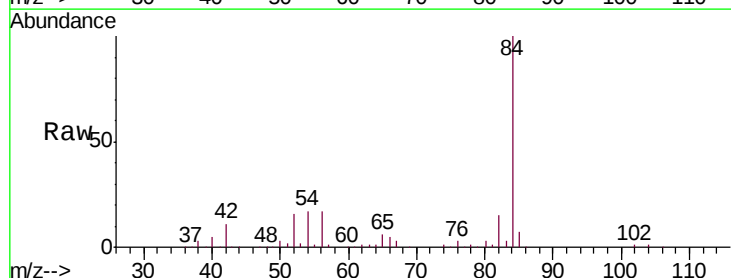
Tgt Ion: 96 Resp: 166148
 Ion Ratio Lower Upper
 96 100
 61 139.3 92.4 171.6
 68 0.0 0.0 0.0

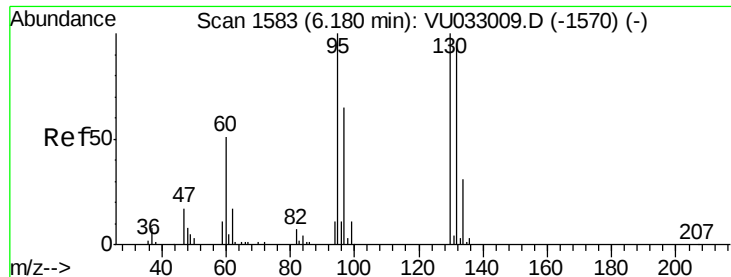


#27

1,2-Dichloroethane
 Concen: 0.747 ug/L
 RT: 5.33 min Scan# 1319
 Delta R.T. -0.06 min
 Lab File: VU033033.D
 Acq: 25 Jun 2019 01:58

Tgt Ion: 62 Resp: 1523
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#





#34

Trichloroethene

Concen: 5.180 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU033033.D

Acq: 25 Jun 2019 01:58

Instrument :

MSVOA_U

ClientSampleId :

ETF26

Tgt Ion: 95 Resp: 7093

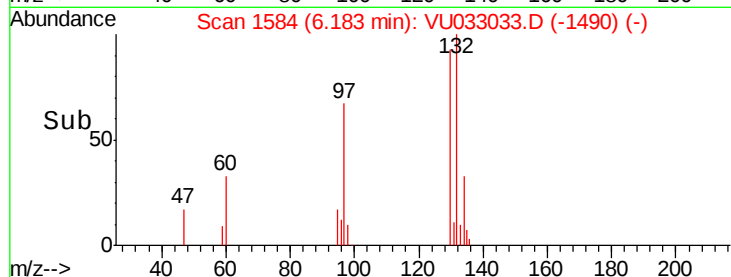
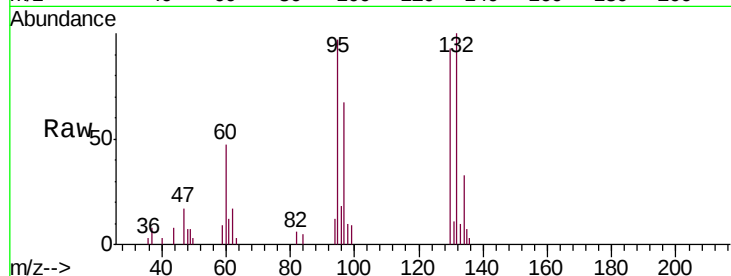
Ion Ratio Lower Upper

95 100

97 68.9 45.9 85.3

132 103.1 68.5 127.3

130 95.7 70.8 131.4

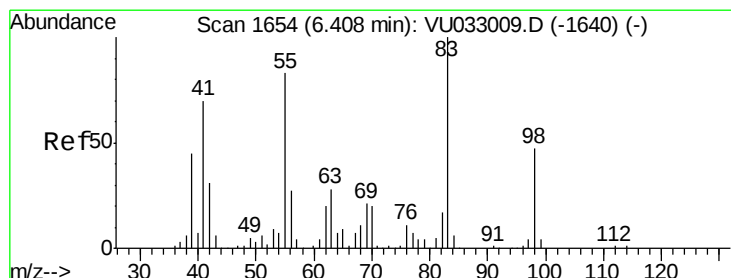
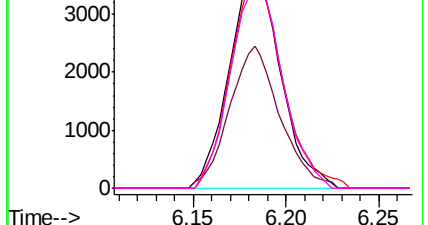


Abundance Ion 95.00 (94.70 to 95.70): VU033033.D (-1490) (-)

Ion 97.00 (96.70 to 97.70): VU033033.D (-1490) (-)

Ion 132.00 (131.70 to 132.70): VU033033.D (-1490) (-)

Ion 130.00 (129.70 to 130.70): VU033033.D (-1490) (-)



#35

Methylcyclohexane

Concen: 8.181 ug/L

RT: 6.32 min Scan# 1628

Delta R.T. -0.08 min

Lab File: VU033033.D

Acq: 25 Jun 2019 01:58

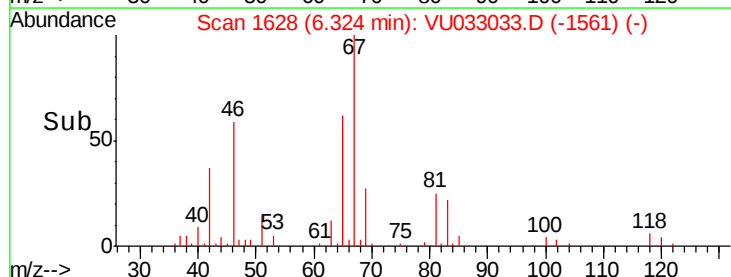
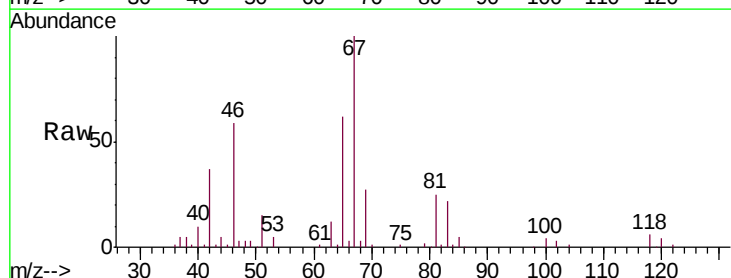
Tgt Ion: 83 Resp: 17315

Ion Ratio Lower Upper

83 100

55 0.0 62.6 94.0#

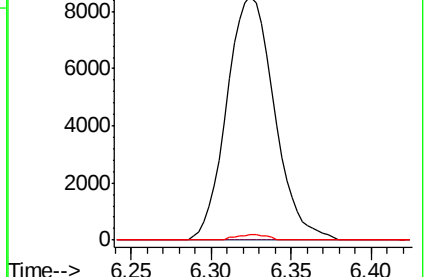
98 1.5 37.4 56.0#

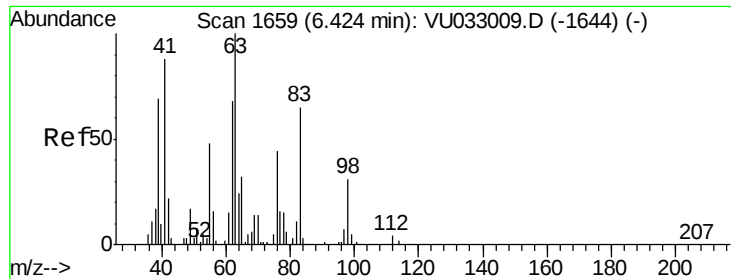


Abundance Ion 83.00 (82.70 to 83.70): VU033033.D (-1561) (-)

Ion 55.00 (54.70 to 55.70): VU033033.D (-1561) (-)

Ion 98.00 (97.70 to 98.70): VU033033.D (-1561) (-)

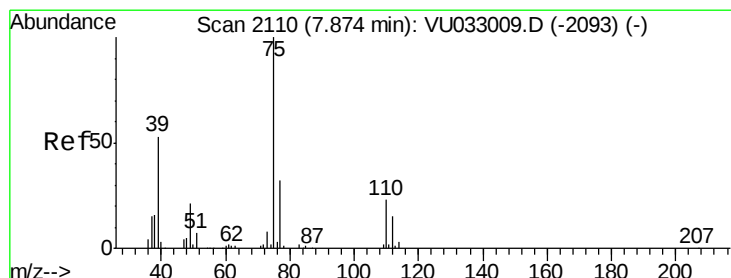
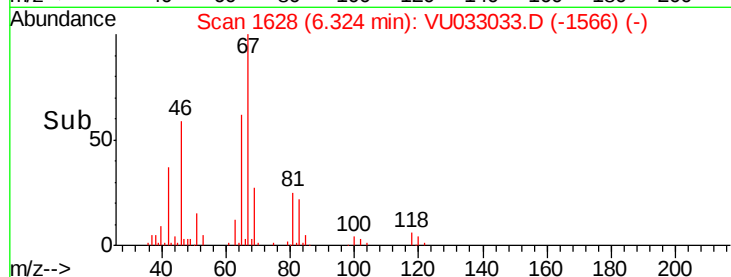
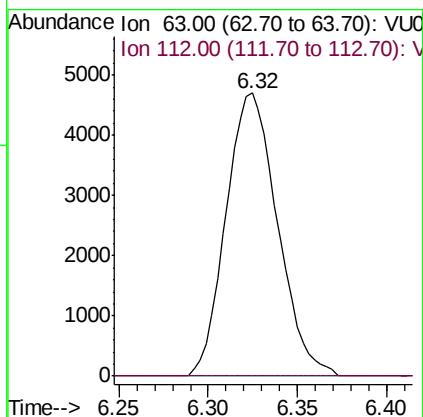
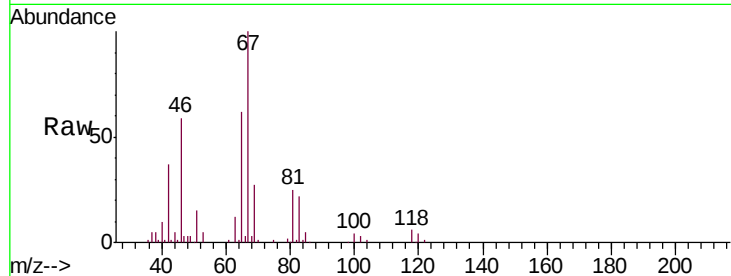




#37
 1,2-Dichloropropane
 Concen: 6.729 ug/L
 RT: 6.32 min Scan# 1628
 Delta R.T. -0.10 min
 Lab File: VU033033.D
 Acq: 25 Jun 2019 01:58

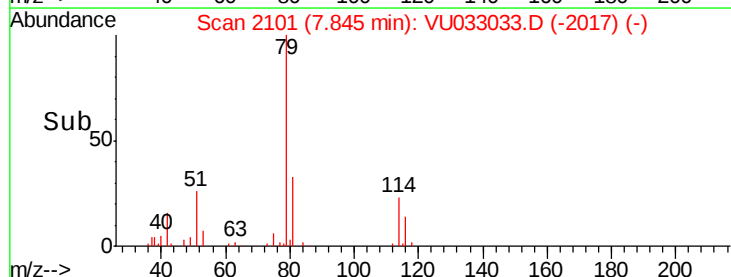
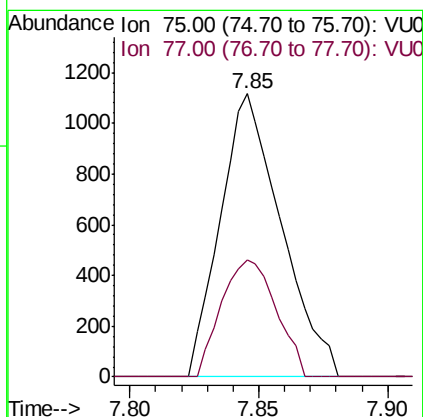
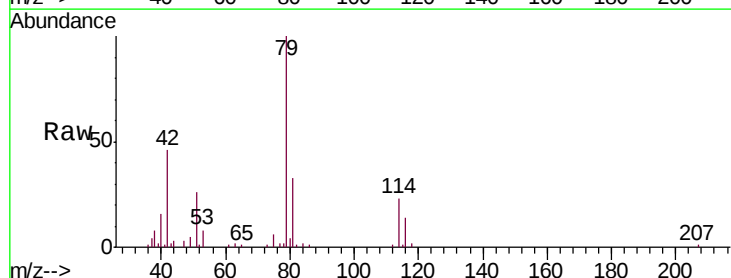
Instrument :
 MSVOA_U
 ClientSampleId :
 ETF26

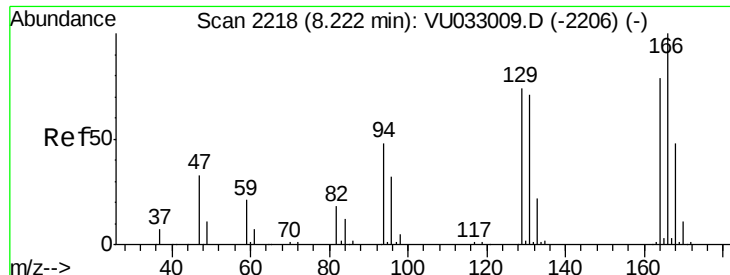
Tgt Ion: 63 Resp: 9459
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.6#



#44
 trans-1,3-Dichloropropene
 Concen: 0.893 ug/L
 RT: 7.85 min Scan# 2101
 Delta R.T. -0.03 min
 Lab File: VU033033.D
 Acq: 25 Jun 2019 01:58

Tgt Ion: 75 Resp: 1836
 Ion Ratio Lower Upper
 75 100
 77 41.2 21.8 40.4#

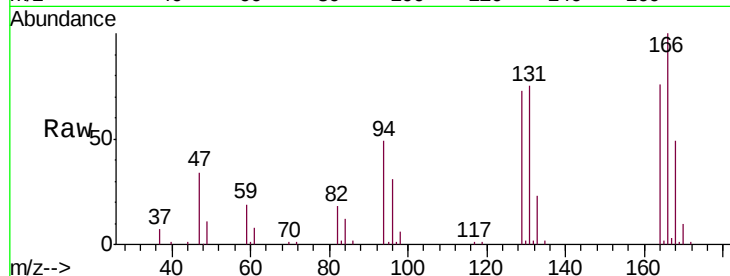




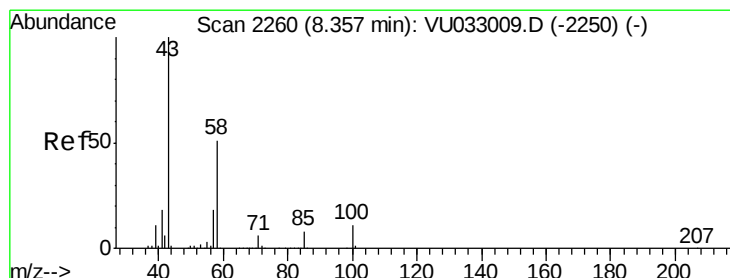
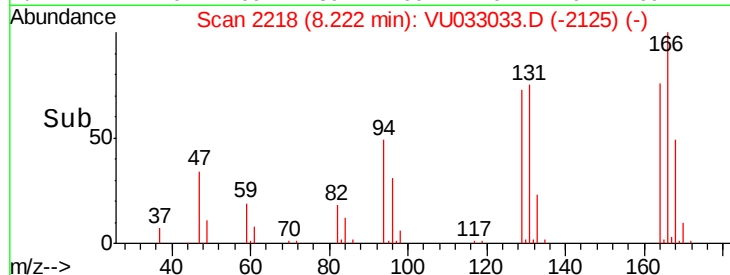
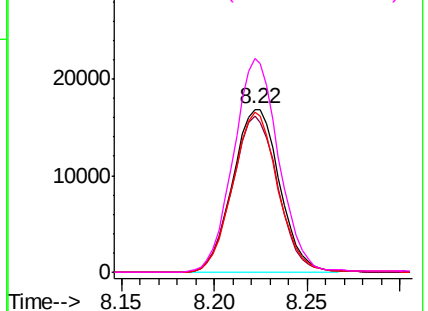
#46
Tetrachloroethene
Concen: 26.392 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VU033033.D
Acq: 25 Jun 2019 01:58

Instrument :
MSVOA_U
ClientSampleId :
ETF26

Tgt Ion:164 Resp: 29613
Ion Ratio Lower Upper
164 100
129 96.3 64.8 120.3
131 98.1 64.5 119.7
166 131.3 91.3 169.6

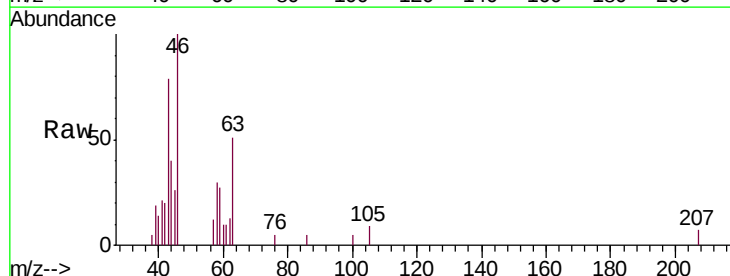


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

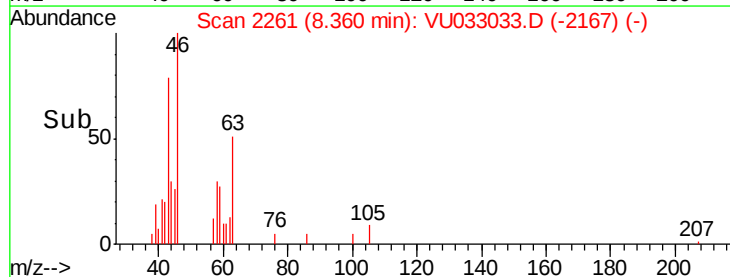
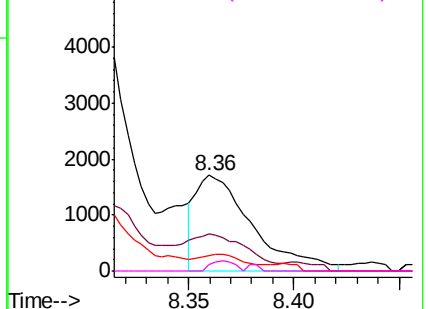


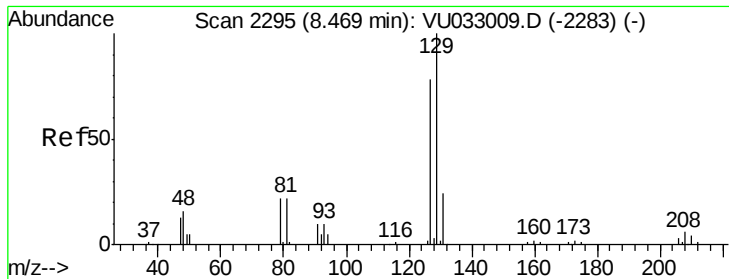
#48
2-Hexanone
Concen: 1.613 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU033033.D
Acq: 25 Jun 2019 01:58

Tgt Ion: 43 Resp: 3195
Ion Ratio Lower Upper
43 100
58 32.0 40.2 60.2#
57 0.0 14.2 21.4#
100 4.4 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#49

Dibromochloromethane

Concen: 17.528 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.25 min

Lab File: VU033033.D

Acq: 25 Jun 2019 01:58

Instrument :

MSVOA_U

ClientSampleId :

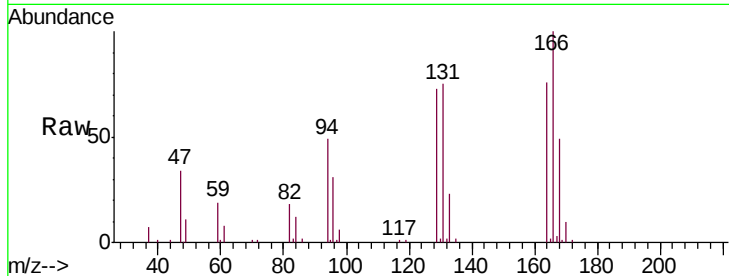
ETF26

Tgt Ion:129 Resp: 27648

Ion Ratio Lower Upper

129 100

127 0.0 52.3 97.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.22

15000

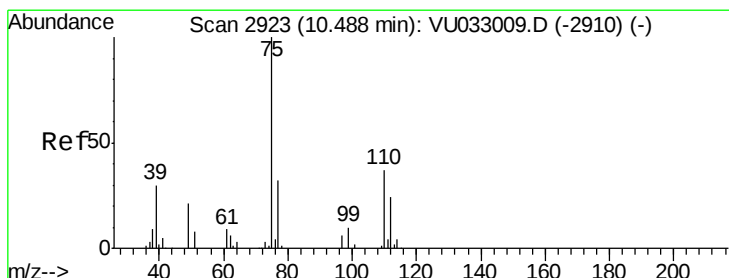
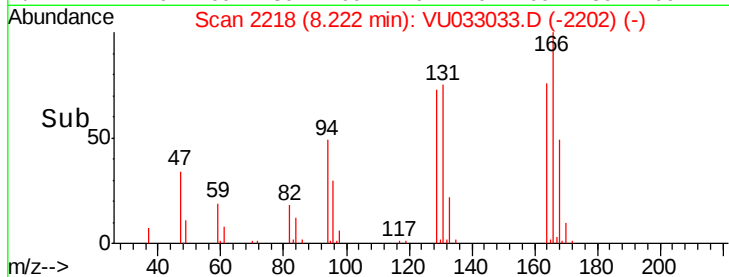
10000

5000

0

Time-->

8.15 8.20 8.25 8.30



#59

1,2,3-Trichloropropane

Concen: 6.040 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU033033.D

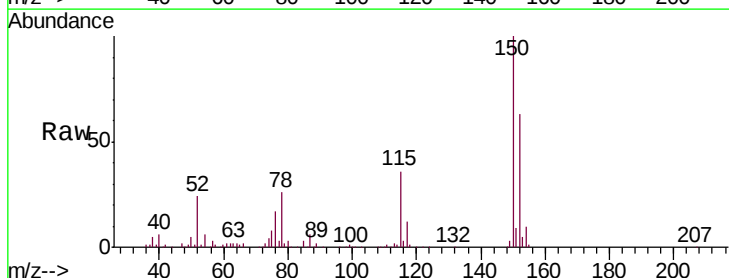
Acq: 25 Jun 2019 01:58

Tgt Ion: 75 Resp: 11332

Ion Ratio Lower Upper

75 100

77 36.9 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

8000

6000

4000

2000

0

Time-->

11.45 11.50 11.55

