

Data File : VU033024.D
Acq On : 24 Jun 2019 22:32
Operator : JC/SP
Sample : K3463-08MSD
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ETF07MSD

Quant Time: Jun 25 06:59:55 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	192029	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	189157	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	89903	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	63776	48.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.20%
7) Chloroethane-d5	1.67	69	53982	51.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.16%
11) 1,1-Dichloroethene-d2	2.27	63	132676	50.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.36%
21) 2-Butanone-d5	4.17	46	125411	114.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.81%
24) Chloroform-d	4.64	84	133294	52.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.50%
26) 1,2-Dichloroethane-d4	5.30	65	94370	55.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	111.06%
32) Benzene-d6	5.33	84	262317	53.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.40%
36) 1,2-Dichloropropane-d6	6.32	67	84736	53.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.88%
41) Toluene-d8	7.56	98	237344	51.40	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.80%
43) trans-1,3-Dichloropropene-	7.84	79	40288	49.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.62%
47) 2-Hexanone-d5	8.31	63	76140	103.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.81%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	121938	50.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.44%
64) 1,2-Dichlorobenzene-d4	11.86	152	94311	54.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.42%

Target Compounds

					Qvalue	
5) Vinyl chloride	1.40	62	1430	0.820	ug/L #	1
8) Chloroethane	1.40	64	1508	1.502	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	923	0.719	ug/L #	17
12) 1,1-Dichloroethene	2.28	96	55789	46.135	ug/L	95
17) trans-1,2-Dichloroethene	2.98	96	666	0.508	ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	84229	58.960	ug/L	98
27) 1,2-Dichloroethane	5.38	62	2976	1.405	ug/L #	77
33) Benzene	5.38	78	267811	49.147	ug/L	100
34) Trichloroethene	6.18	95	79234	54.422	ug/L	100
35) Methylcyclohexane	6.32	83	19278	8.566	ug/L #	18
37) 1,2-Dichloropropane	6.32	63	10455	6.995	ug/L #	88
39) cis-1,3-Dichloropropene	7.22	75	2724	1.170	ug/L #	53
40) 4-Methyl-2-pentanone	7.56	43	1148	0.481	ug/L #	1
42) Toluene	7.63	91	287045	48.687	ug/L	100
44) trans-1,3-Dichloropropene	7.85	75	2063	0.943	ug/L	89
46) Tetrachloroethene	8.22	164	11864	9.945	ug/L	98
48) 2-Hexanone	8.36	43	2155	1.023	ug/L #	43

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

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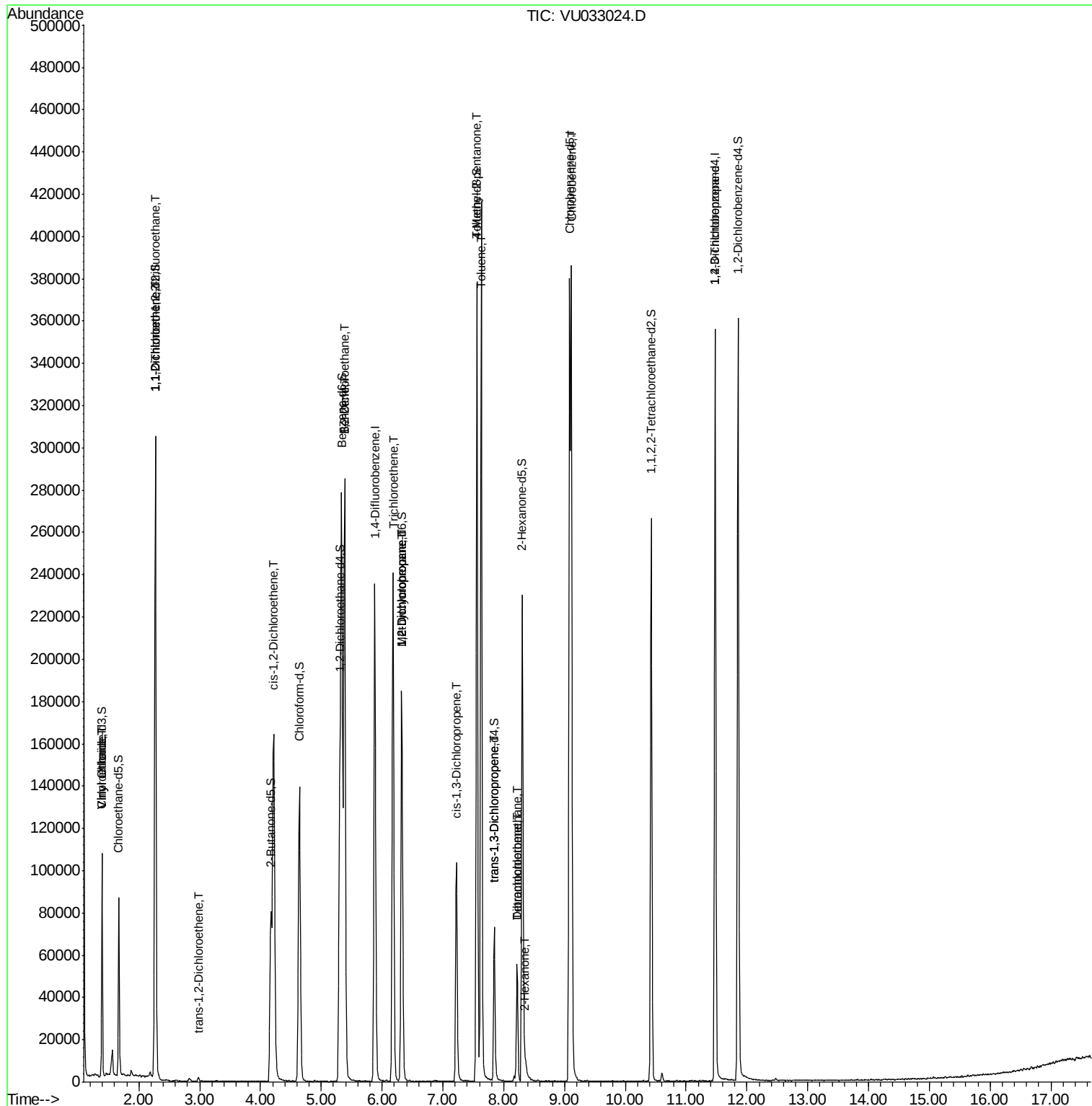
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.22	129	11379	6.785	ug/L #	12
51) Chlorobenzene	9.11	112	188451	48.574	ug/L	97
59) 1,2,3-Trichloropropane	11.48	75	11349	5.689	ug/L #	87

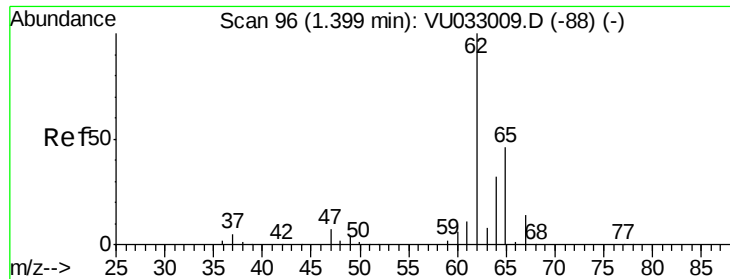
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.820 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU033024.D

Acq: 24 Jun 2019 22:32

Instrument :

MSVOA_U

ClientSampleId :

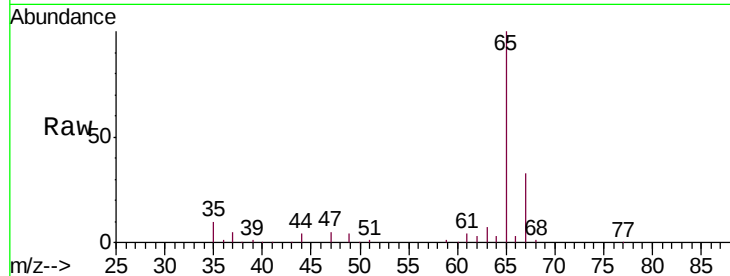
ETF07MSD

Tgt Ion: 62 Resp: 1430

Ion Ratio Lower Upper

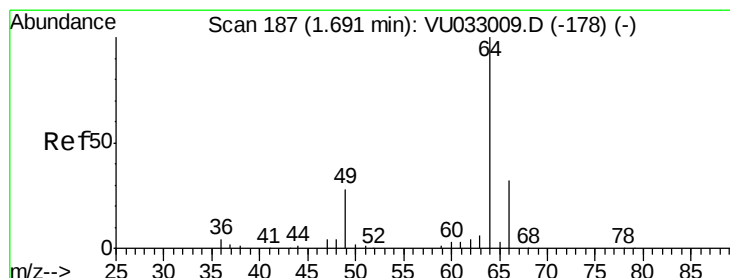
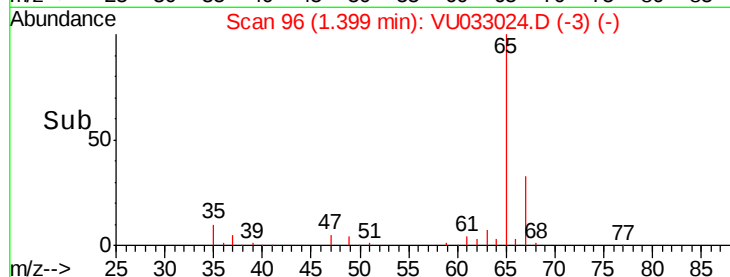
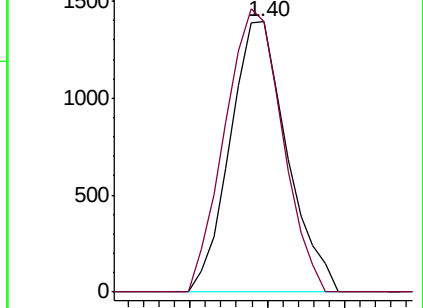
62 100

64 100.1 23.0 42.6#



Abundance Ion 62.00 (61.70 to 62.70): VU033009.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU033009.D (-88) (-)



#8

Chloroethane

Concen: 1.502 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.30 min

Lab File: VU033024.D

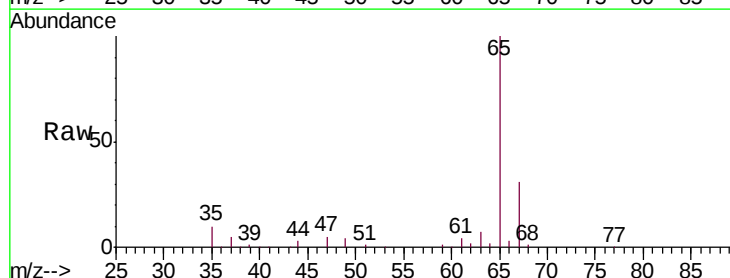
Acq: 24 Jun 2019 22:32

Tgt Ion: 64 Resp: 1508

Ion Ratio Lower Upper

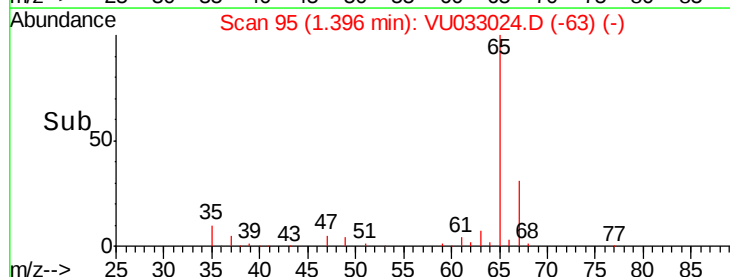
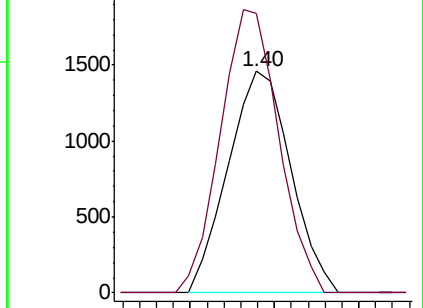
64 100

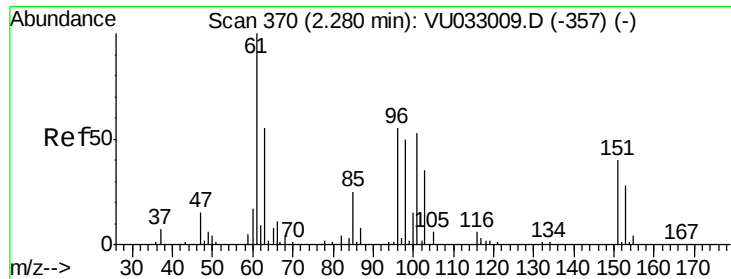
66 126.1 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VU033009.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU033009.D (-178) (-)





#10

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

Concen: 0.719 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.02 min

Lab File: VU033024.D

Acq: 24 Jun 2019 22:32

Instrument :

MSVOA_U

ClientSampleId :

ETF07MSD

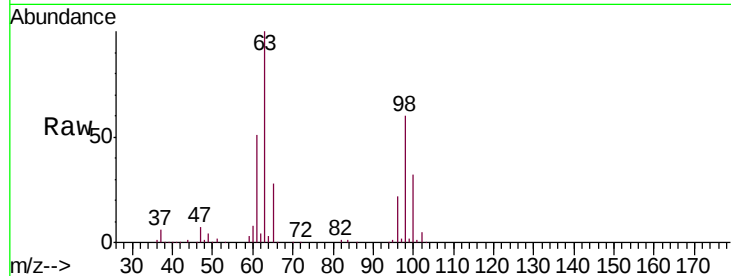
Tgt Ion: 101 Resp: 923

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

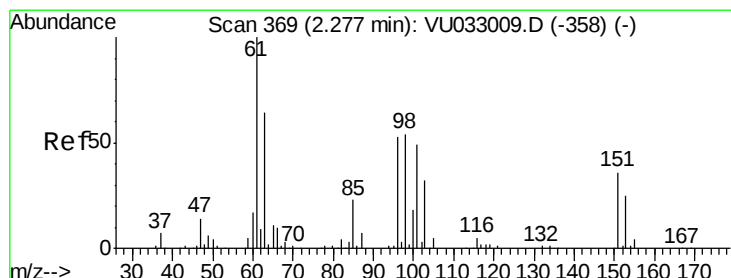
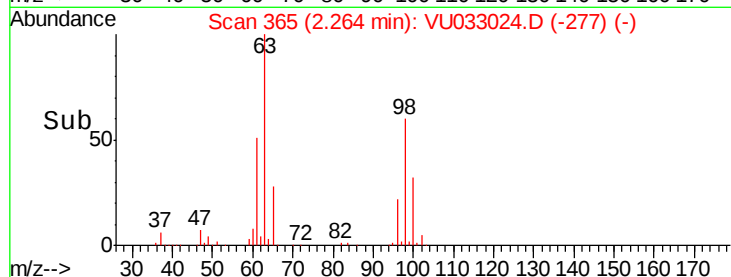
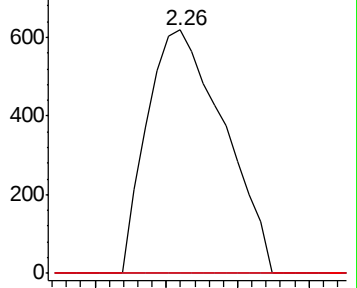
151 0.0 63.6 95.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.135 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU033024.D

Acq: 24 Jun 2019 22:32

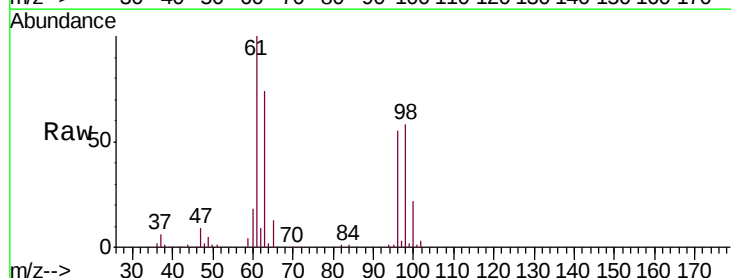
Tgt Ion: 96 Resp: 55789

Ion Ratio Lower Upper

96 100

61 182.4 131.0 243.4

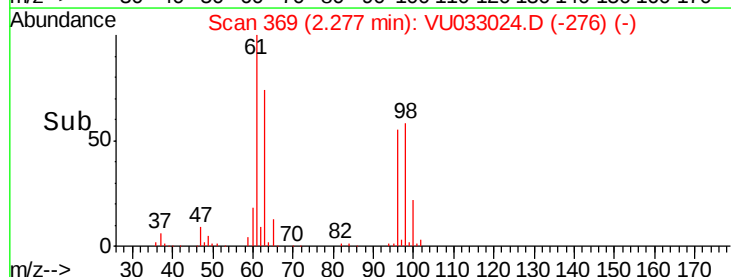
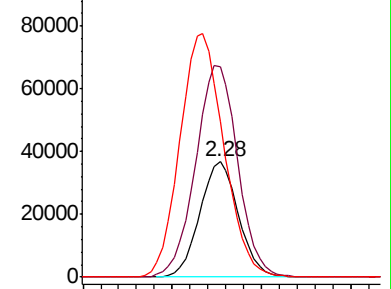
63 134.3 101.0 187.6

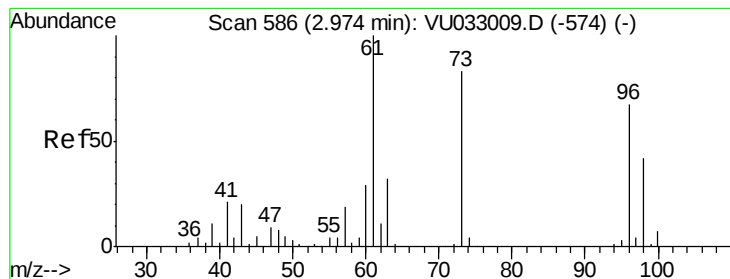


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 0.508 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.01 min

Lab File: VU033024.D

Acq: 24 Jun 2019 22:32

Instrument :

MSVOA_U

ClientSampleId :

ETF07MSD

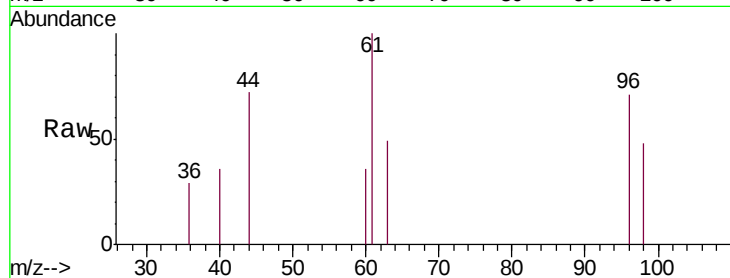
Tgt Ion: 96 Resp: 666

Ion Ratio Lower Upper

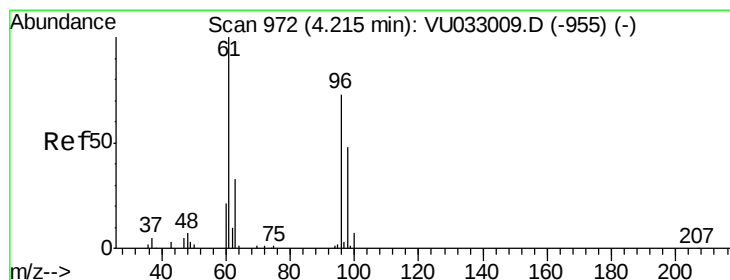
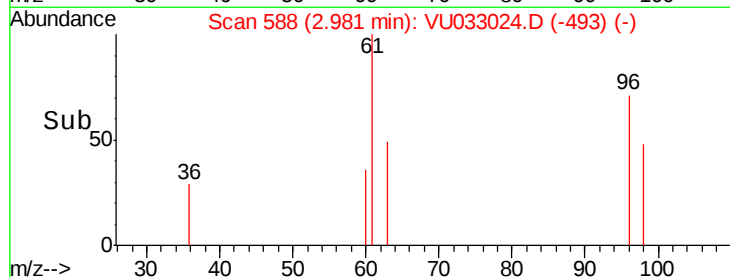
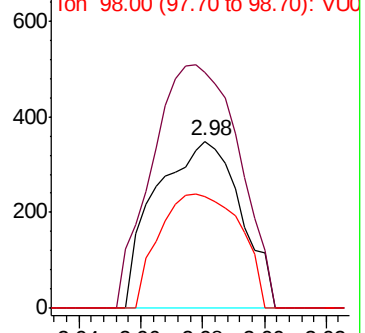
96 100

61 141.0 100.9 187.5

98 67.0 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU033009.D (-574) (-)



#20

cis-1,2-Dichloroethene

Concen: 58.960 ug/L

RT: 4.22 min Scan# 972

Delta R.T. 0.00 min

Lab File: VU033024.D

Acq: 24 Jun 2019 22:32

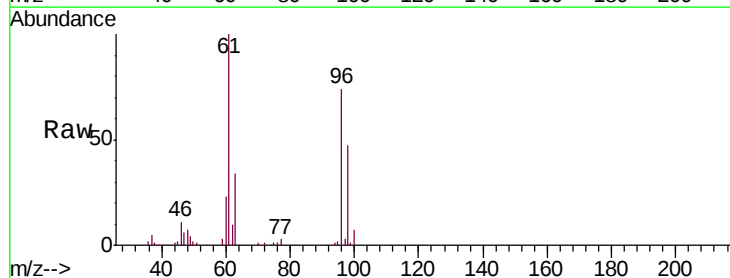
Tgt Ion: 96 Resp: 84229

Ion Ratio Lower Upper

96 100

61 134.6 92.4 171.6

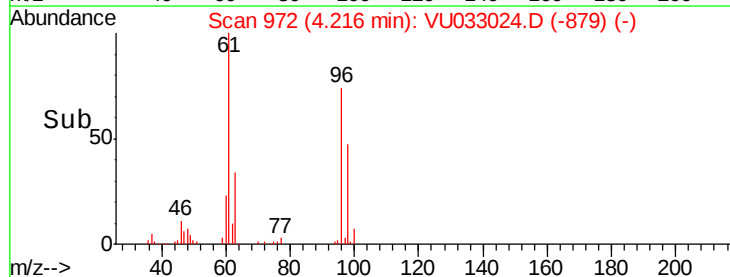
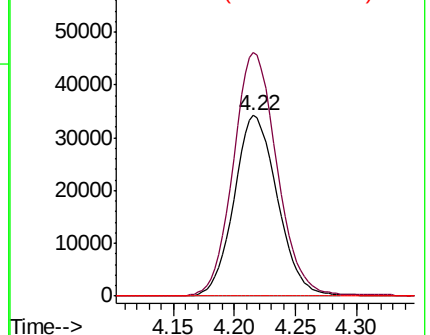
68 0.0 0.0 0.0

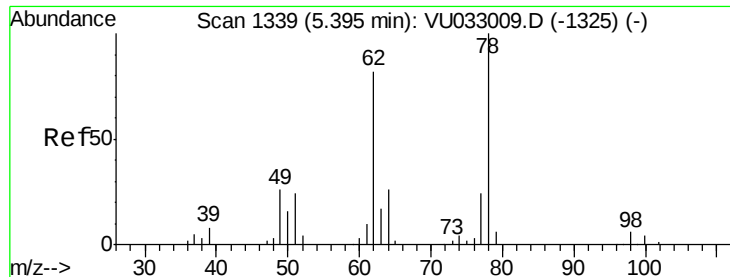


Abundance Ion 96.00 (95.70 to 96.70): VU033009.D (-955) (-)

Ion 61.00 (60.70 to 61.70): VU033009.D (-955) (-)

Ion 68.00 (67.70 to 68.70): VU033009.D (-955) (-)





#27

1,2-Dichloroethane

Concen: 1.405 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.02 min

Lab File: VU033024.D

Acq: 24 Jun 2019 22:32

Instrument :

MSVOA_U

ClientSampleId :

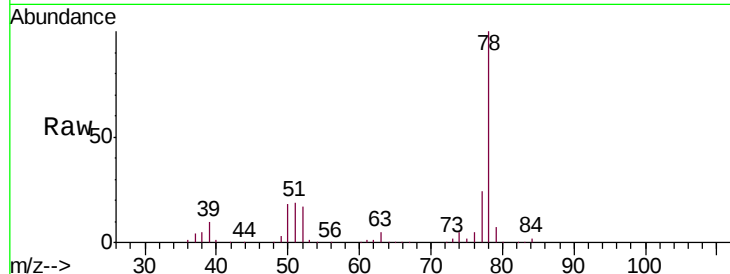
ETF07MSD

Tgt Ion: 62 Resp: 2976

Ion Ratio Lower Upper

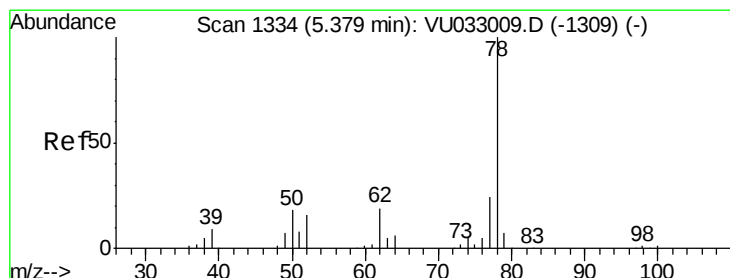
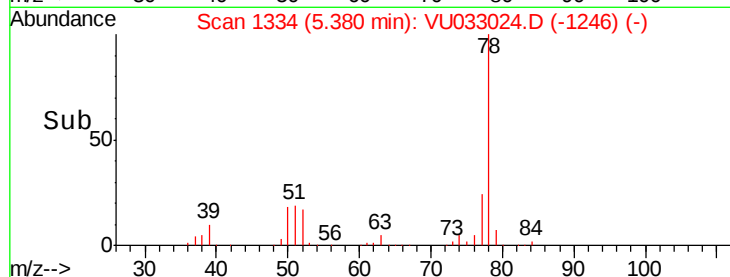
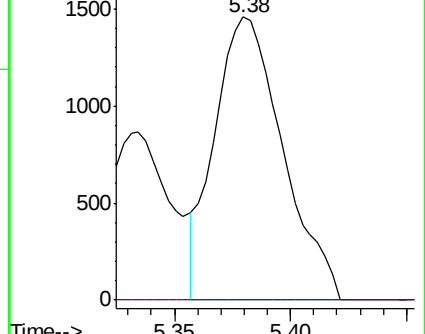
62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#33

Benzene

Concen: 49.147 ug/L

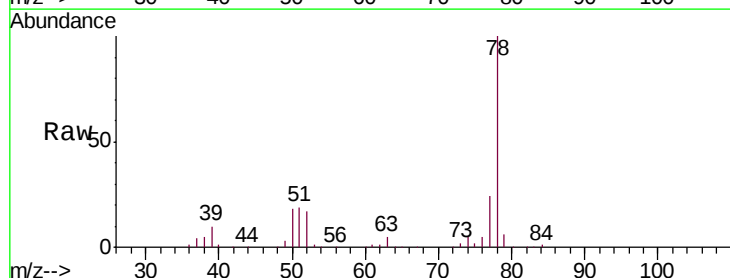
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

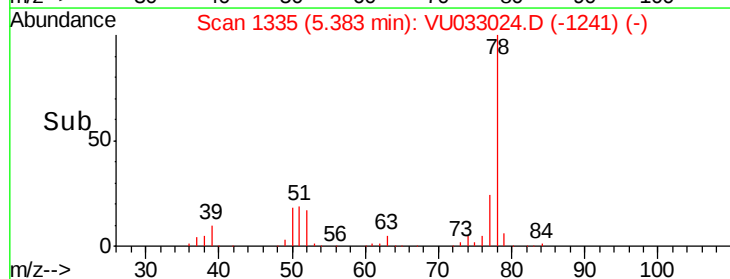
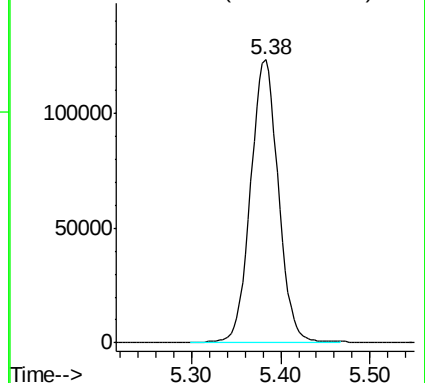
Lab File: VU033024.D

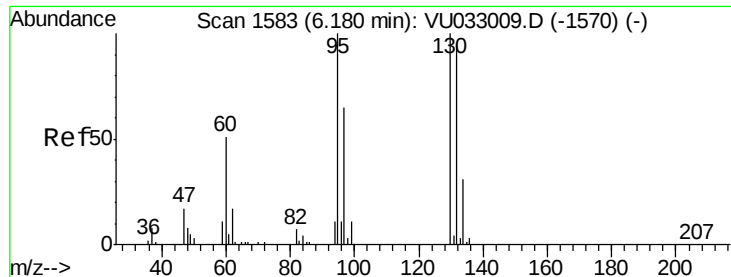
Acq: 24 Jun 2019 22:32

Tgt Ion: 78 Resp: 267811



Abundance Ion 78.00 (77.70 to 78.70): VU0

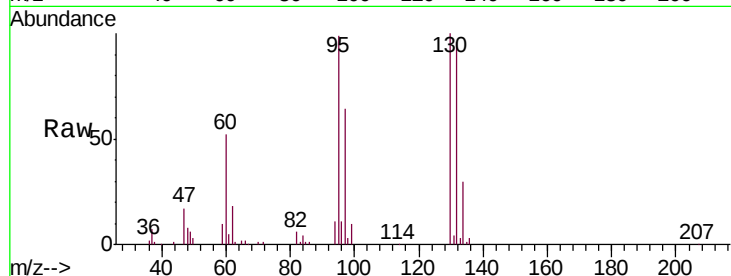




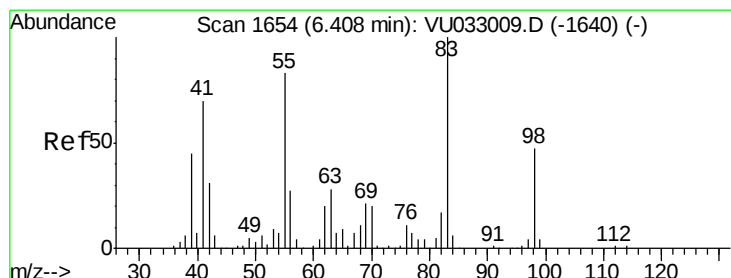
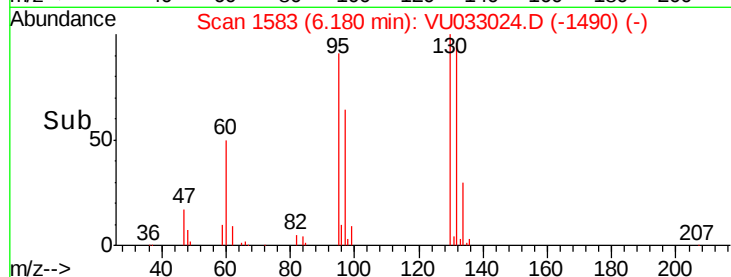
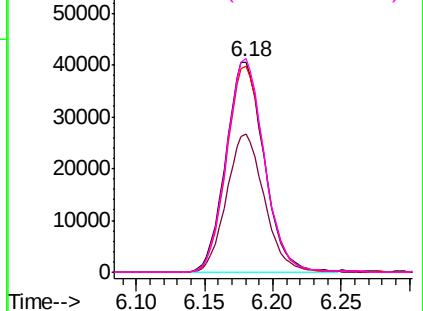
#34
 Trichloroethene
 Concen: 54.422 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VU033024.D
 Acq: 24 Jun 2019 22:32

Instrument :
 MSVOA_U
 ClientSampleId :
 ETF07MSD

Tgt Ion: 95 Resp: 79234
 Ion Ratio Lower Upper
 95 100
 97 65.4 45.9 85.3
 132 97.8 68.5 127.3
 130 101.5 70.8 131.4

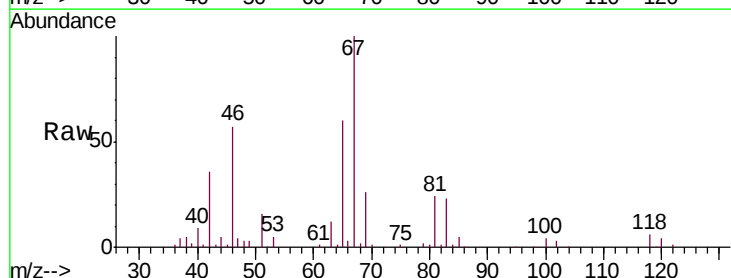


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

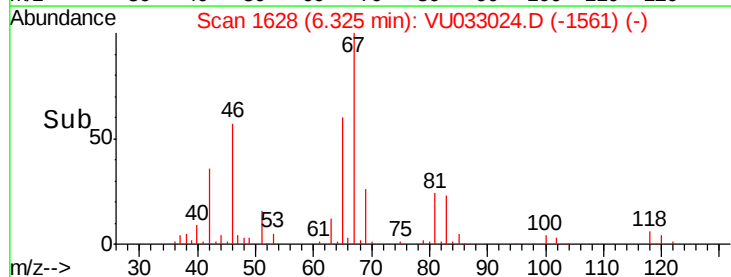
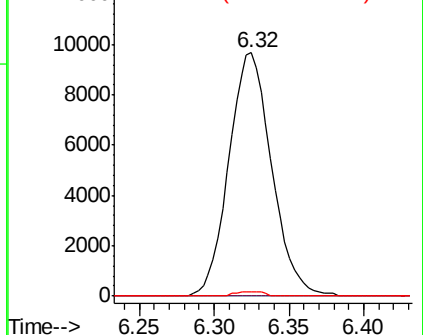


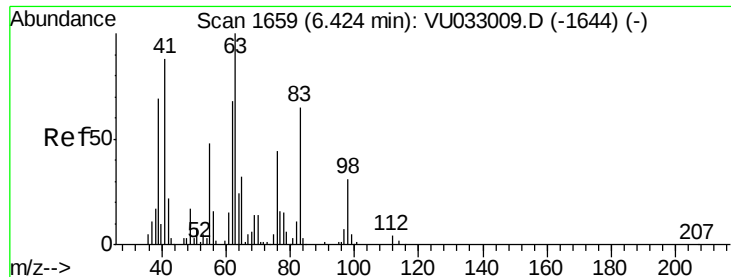
#35
 Methylcyclohexane
 Concen: 8.566 ug/L
 RT: 6.32 min Scan# 1628
 Delta R.T. -0.08 min
 Lab File: VU033024.D
 Acq: 24 Jun 2019 22:32

Tgt Ion: 83 Resp: 19278
 Ion Ratio Lower Upper
 83 100
 55 0.0 62.6 94.0#
 98 1.3 37.4 56.0#



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

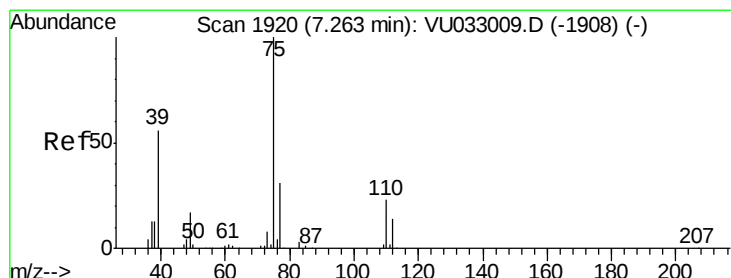
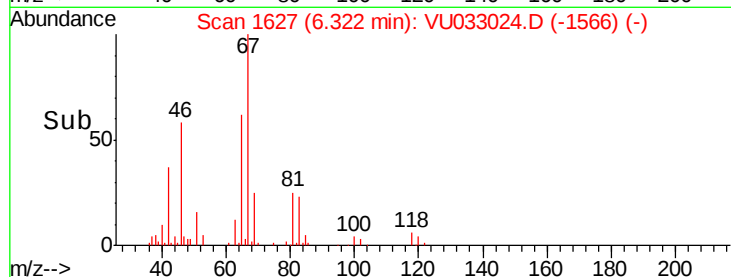
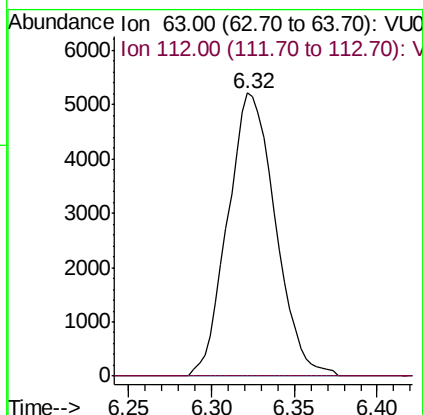
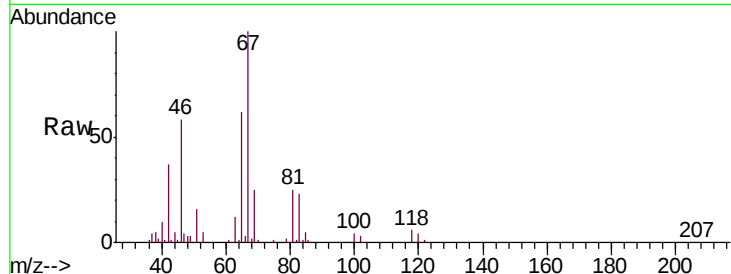




#37
 1,2-Dichloropropane
 Concen: 6.995 ug/L
 RT: 6.32 min Scan# 1627
 Delta R.T. -0.10 min
 Lab File: VU033024.D
 Acq: 24 Jun 2019 22:32

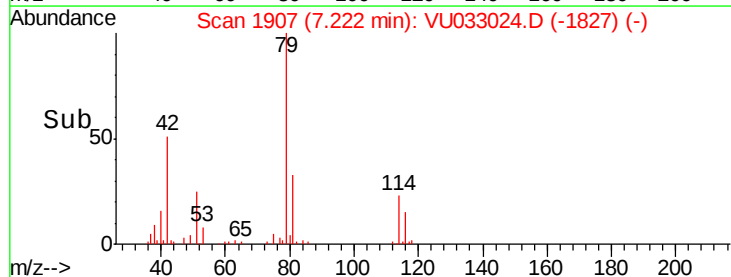
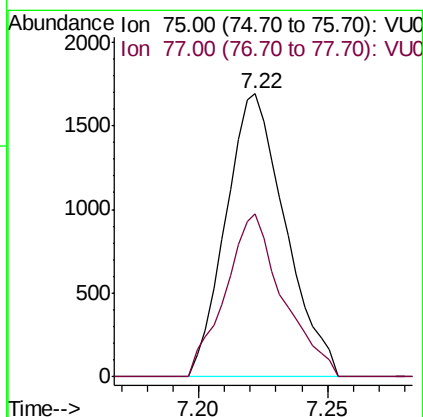
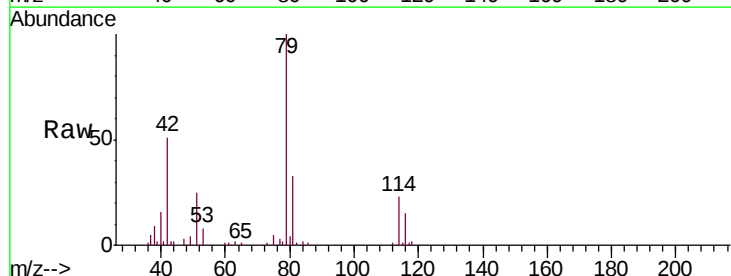
Instrument :
 MSVOA_U
 ClientSampleId :
 ETF07MSD

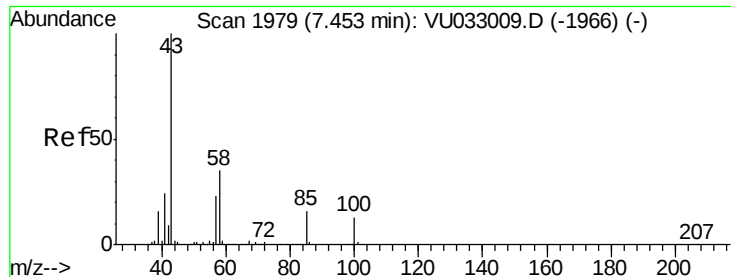
Tgt Ion: 63 Resp: 10455
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.6#



#39
 cis-1,3-Dichloropropene
 Concen: 1.170 ug/L
 RT: 7.22 min Scan# 1907
 Delta R.T. -0.04 min
 Lab File: VU033024.D
 Acq: 24 Jun 2019 22:32

Tgt Ion: 75 Resp: 2724
 Ion Ratio Lower Upper
 75 100
 77 57.5 21.9 40.7#

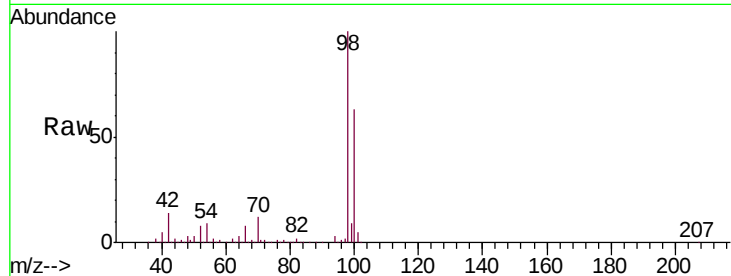




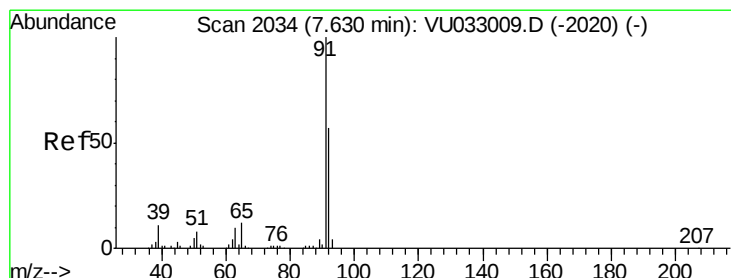
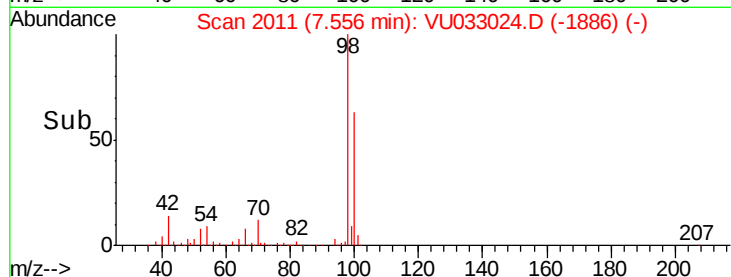
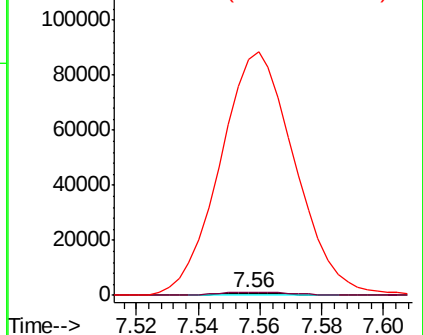
#40
 4-Methyl-2-pentanone
 Concen: 0.481 ug/L
 RT: 7.56 min Scan# 2011
 Delta R.T. 0.10 min
 Lab File: VU033024.D
 Acq: 24 Jun 2019 22:32

Instrument :
 MSVOA_U
 ClientSampleId :
 ETF07MSD

Tgt Ion: 43 Resp: 1148
 Ion Ratio Lower Upper
 43 100
 58 187.7 29.4 44.2#
 100 13088.2 11.2 16.8#

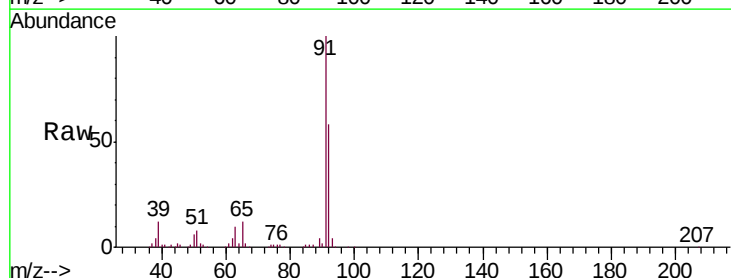


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

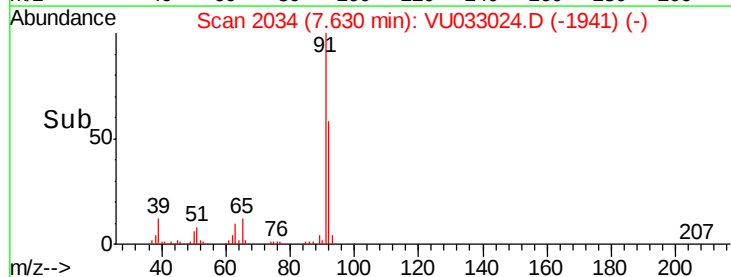
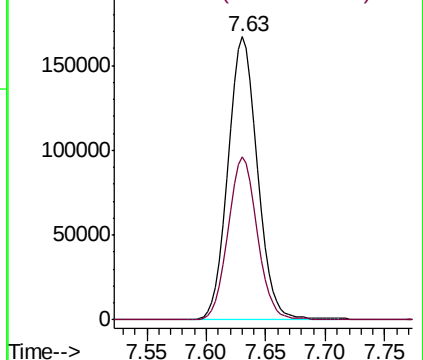


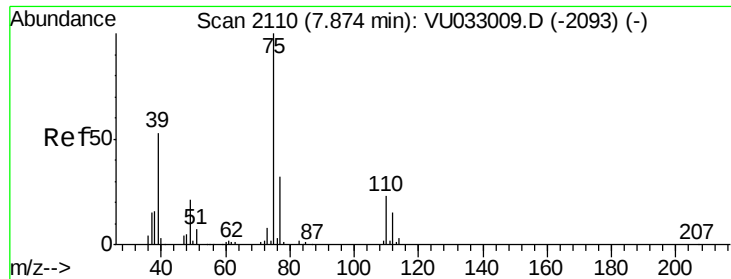
#42
 Toluene
 Concen: 48.687 ug/L
 RT: 7.63 min Scan# 2034
 Delta R.T. 0.00 min
 Lab File: VU033024.D
 Acq: 24 Jun 2019 22:32

Tgt Ion: 91 Resp: 287045
 Ion Ratio Lower Upper
 91 100
 92 57.5 40.4 75.0



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: 0.943 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU033024.D

Acq: 24 Jun 2019 22:32

Instrument :

MSVOA_U

ClientSampleId :

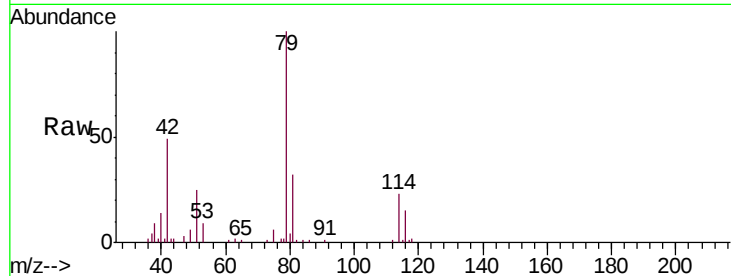
ETF07MSD

Tgt Ion: 75 Resp: 2063

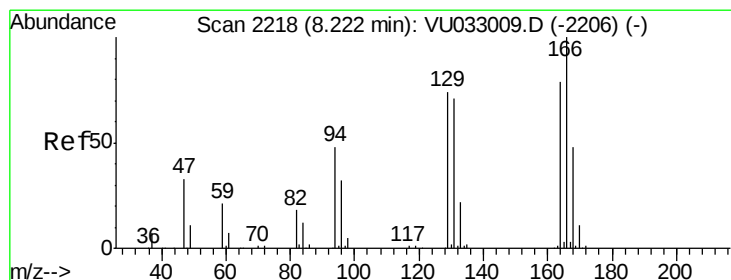
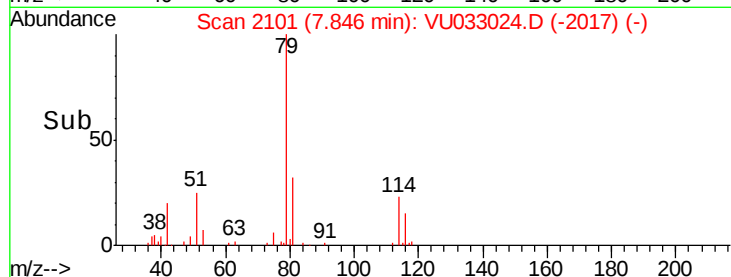
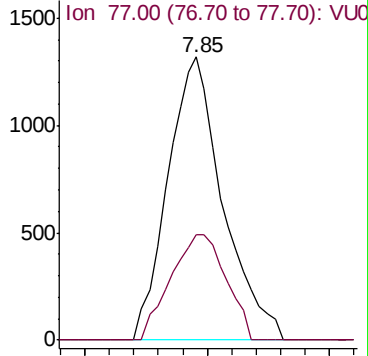
Ion Ratio Lower Upper

75 100

77 37.1 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU033009.D (-2093) (-)



#46

Tetrachloroethene

Concen: 9.945 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU033024.D

Acq: 24 Jun 2019 22:32

Tgt Ion:164 Resp: 11864

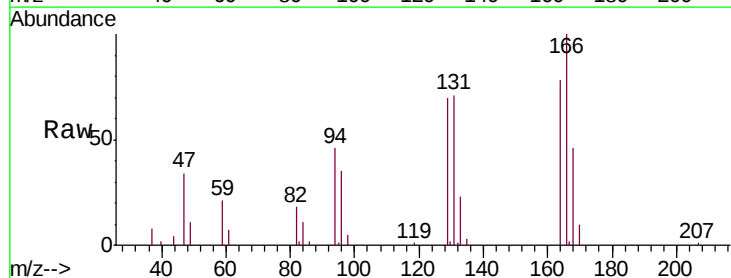
Ion Ratio Lower Upper

164 100

129 90.1 64.8 120.3

131 91.1 64.5 119.7

166 128.1 91.3 169.6

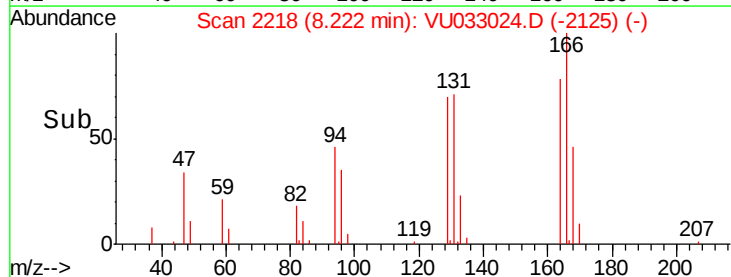
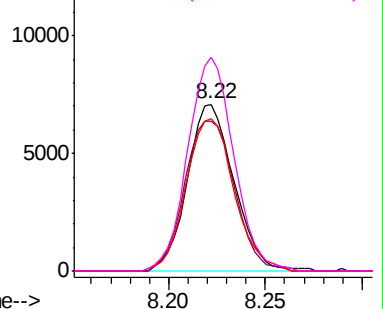


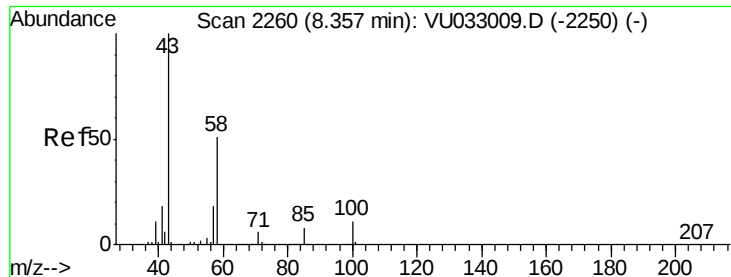
Abundance Ion 164.00 (163.70 to 164.70): VU033009.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU033009.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU033009.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU033009.D (-2206) (-)

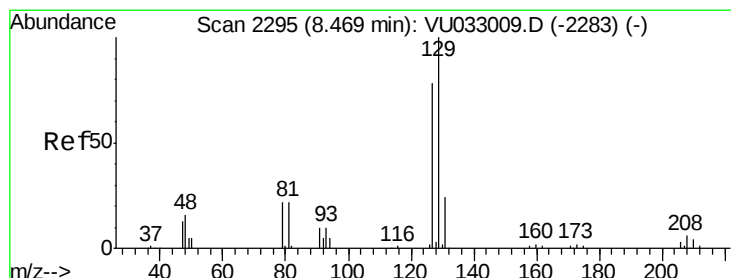
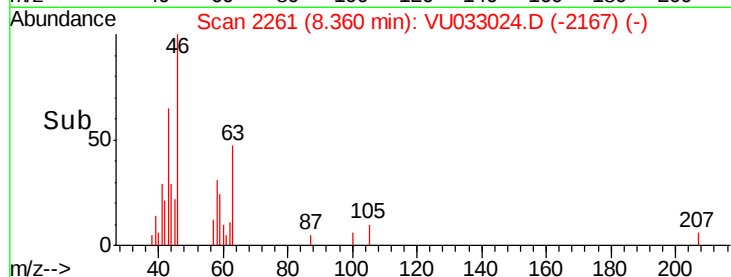
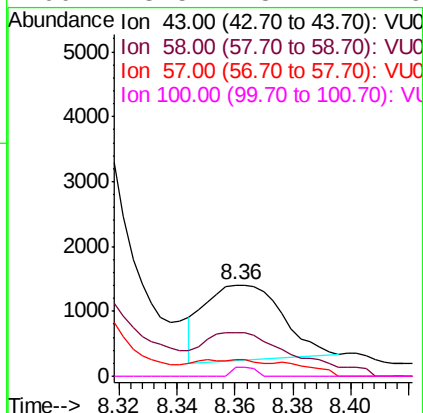
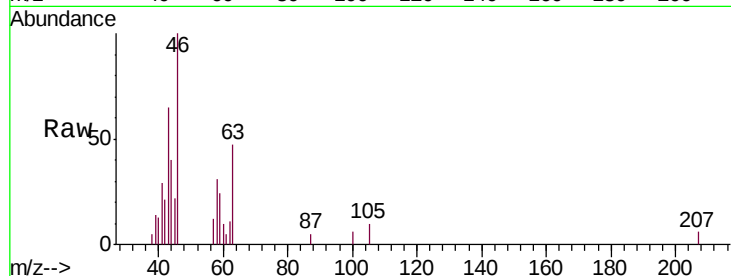




#48
2-Hexanone
Concen: 1.023 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU033024.D
Acq: 24 Jun 2019 22:32

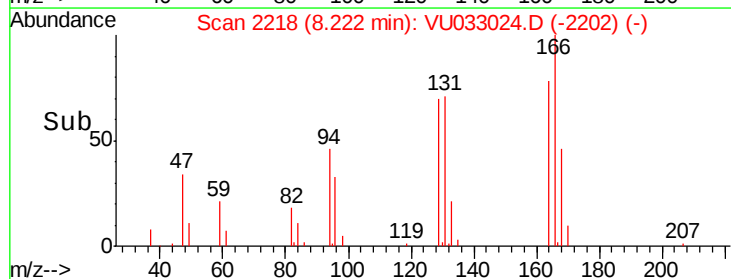
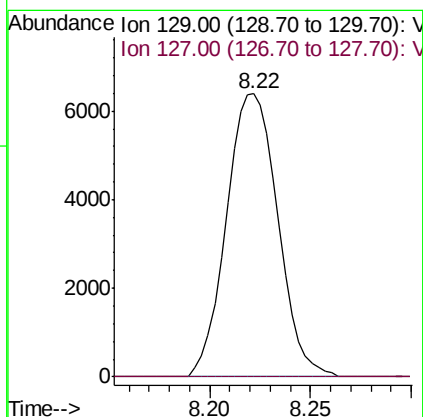
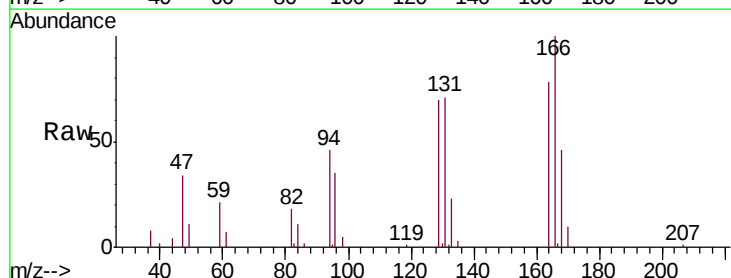
Instrument :
MSVOA_U
ClientSampleId :
ETF07MSD

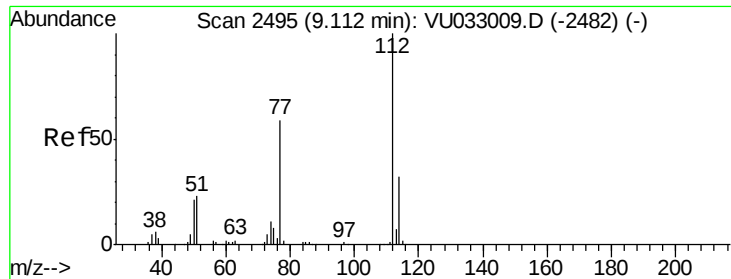
Tgt Ion:	43	Resp:	2155
Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.2	60.2#
57	2.4	14.2	21.4#
100	3.5	8.4	12.6#



#49
Dibromochloromethane
Concen: 6.785 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.25 min
Lab File: VU033024.D
Acq: 24 Jun 2019 22:32

Tgt Ion:	129	Resp:	11379
Ion	Ratio	Lower	Upper
129	100		
127	0.0	52.3	97.1#

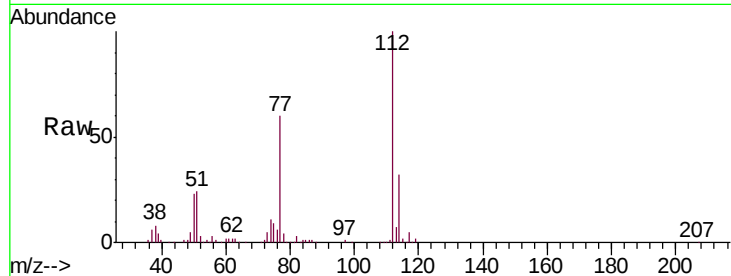




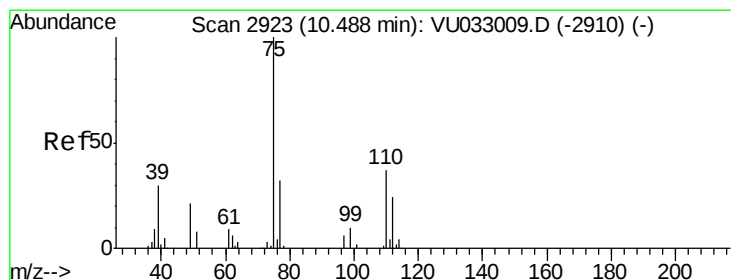
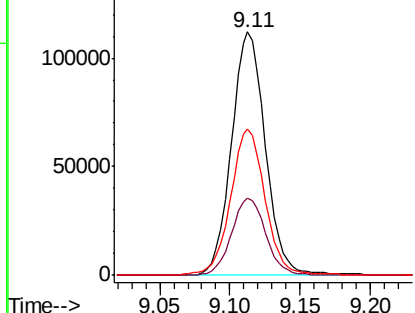
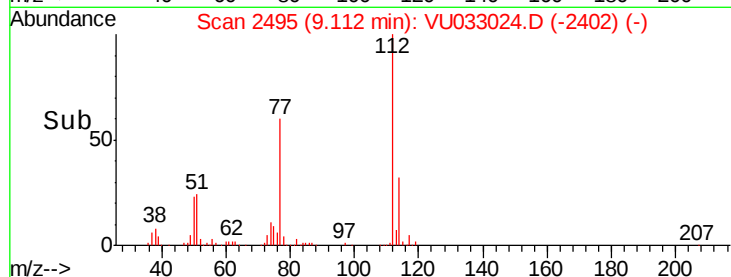
#51
Chlorobenzene
Concen: 48.574 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. 0.00 min
Lab File: VU033024.D
Acq: 24 Jun 2019 22:32

Instrument :
MSVOA_U
ClientSampleId :
ETF07MSD

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	22.8	42.4
77	60.4	46.3	69.5

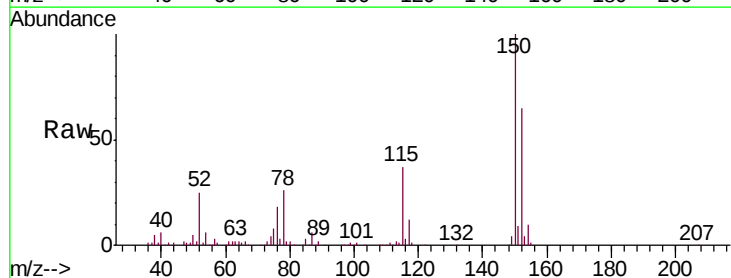


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V



#59
1,2,3-Trichloropropane
Concen: 5.689 ug/L
RT: 11.48 min Scan# 3231
Delta R.T. 0.99 min
Lab File: VU033024.D
Acq: 24 Jun 2019 22:32

Tgt Ion	Ratio	Lower	Upper
75	100		
77	39.3	25.5	38.3#



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0

