

Data File : VU033030.D
Acq On : 25 Jun 2019 00:49
Operator : JC/SP
Sample : K3478-11DL 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ETF25DL

Quant Time: Jun 25 07:00:54 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	183391	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	177807	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	81356	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	60521	48.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.58%
7) Chloroethane-d5	1.67	69	53168	53.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.38%
11) 1,1-Dichloroethene-d2	2.26	63	92725	36.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.44%
21) 2-Butanone-d5	4.17	46	126659	121.42	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	121.42%
24) Chloroform-d	4.64	84	129436	53.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.24%
26) 1,2-Dichloroethane-d4	5.30	65	92029	56.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	113.40%
32) Benzene-d6	5.33	84	246838	53.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.50%
36) 1,2-Dichloropropane-d6	6.32	67	81917	55.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.96%
41) Toluene-d8	7.56	98	216816	49.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.90%
43) trans-1,3-Dichloropropene-	7.85	79	38422	50.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.04%
47) 2-Hexanone-d5	8.31	63	72709	105.46	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.46%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	118952	52.11	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.22%
64) 1,2-Dichlorobenzene-d4	11.85	152	85016	54.00	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.00%

Target Compounds

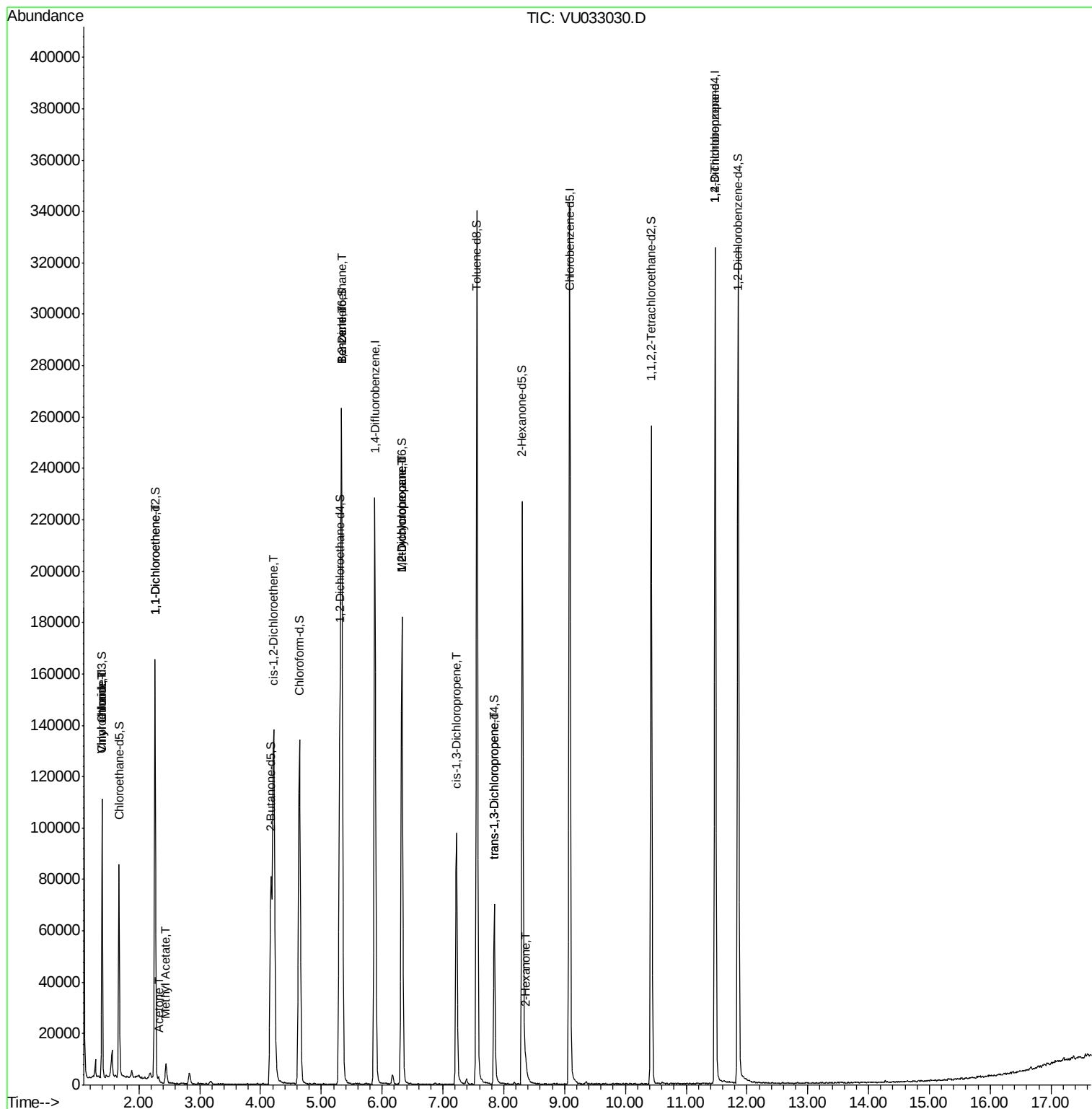
					Qvalue
5) Vinyl chloride	1.40	62	10261	6.161 ug/L	91
8) Chloroethane	1.40	64	4066	4.241 ug/L	97
12) 1,1-Dichloroethene	2.27	96	825	0.714 ug/L #	1
13) Acetone	2.32	43	810	0.562 ug/L	59
15) Methyl Acetate	2.44	43	2297	1.406 ug/L #	53
20) cis-1,2-Dichloroethene	4.22	96	69322	50.811 ug/L	98
27) 1,2-Dichloroethane	5.33	62	1661	0.821 ug/L #	77
33) Benzene	5.33	78	2115	0.413 ug/L	100
35) Methylcyclohexane	6.32	83	19024	8.993 ug/L #	19
37) 1,2-Dichloropropane	6.32	63	9661	6.876 ug/L #	88
39) cis-1,3-Dichloropropene	7.22	75	2711	1.238 ug/L #	67
44) trans-1,3-Dichloropropene	7.84	75	1936	0.942 ug/L	86
48) 2-Hexanone	8.36	43	3268	1.651 ug/L #	92
59) 1,2,3-Trichloropropane	11.48	75	10696	5.704 ug/L #	88

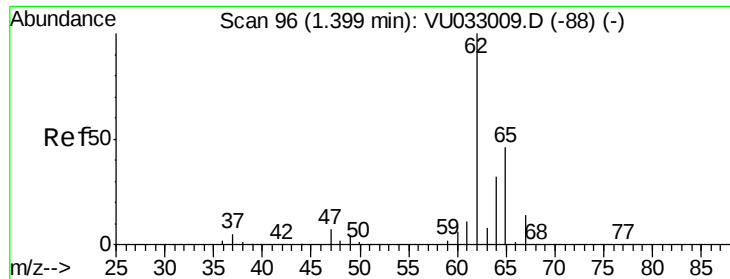
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 6.161 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU033030.D

Acq: 25 Jun 2019 00:49

Instrument :

MSVOA_U

ClientSampleId :

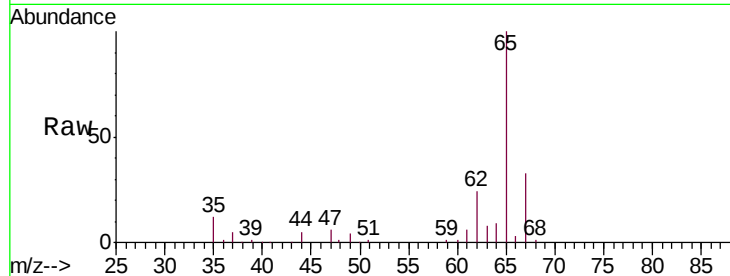
ETF25DL

Tgt Ion: 62 Resp: 10261

Ion Ratio Lower Upper

62 100

64 38.0 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

12000

10000

8000

6000

4000

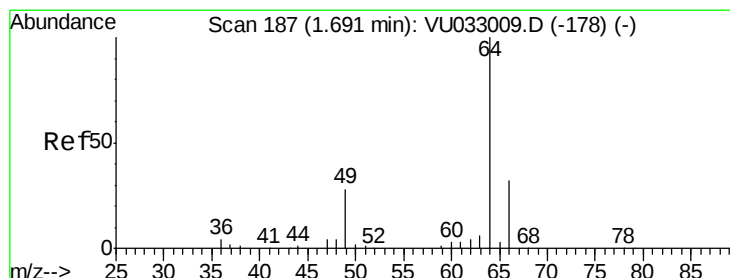
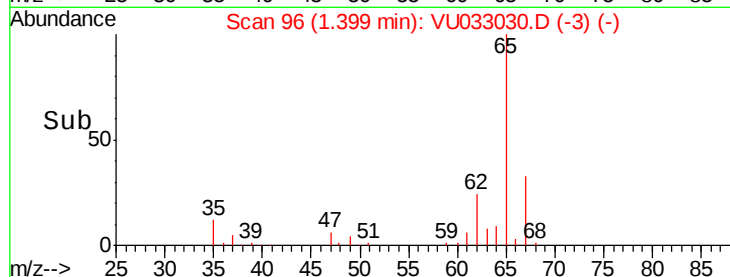
2000

0

Time--> 1.35

1.40

1.45



#8

Chloroethane

Concen: 4.241 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.29 min

Lab File: VU033030.D

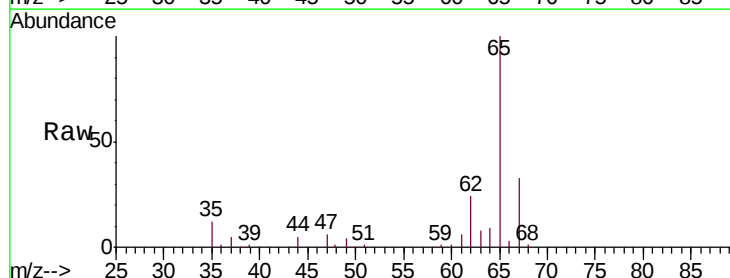
Acq: 25 Jun 2019 00:49

Tgt Ion: 64 Resp: 4066

Ion Ratio Lower Upper

64 100

66 30.6 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

4000

3000

2000

1000

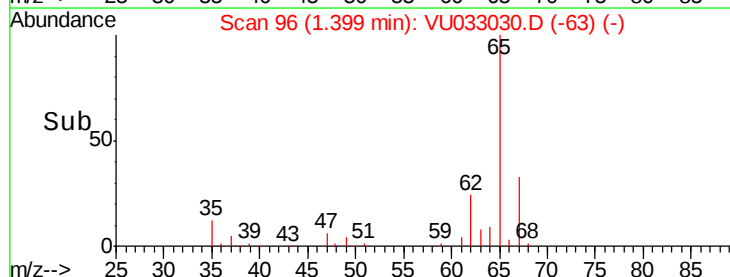
0

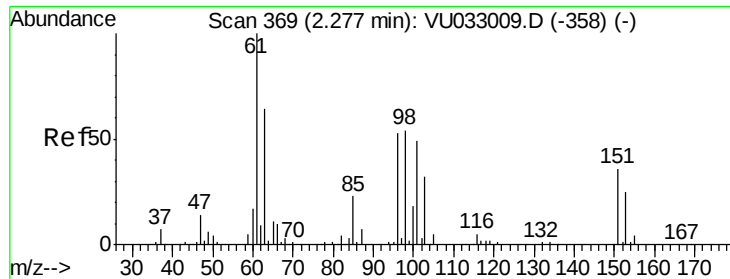
Time--> 1.36

1.38

1.40

1.42





#12

1,1-Dichloroethene

Concen: 0.714 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU033030.D

Acq: 25 Jun 2019 00:49

Instrument :

MSVOA_U

ClientSampleId :

ETF25DL

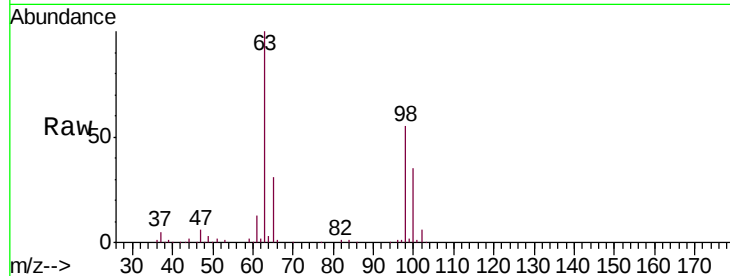
Tgt Ion: 96 Resp: 825

Ion Ratio Lower Upper

96 100

61 1449.5 131.0 243.4#

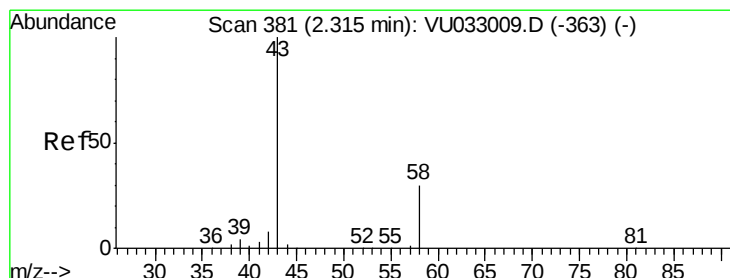
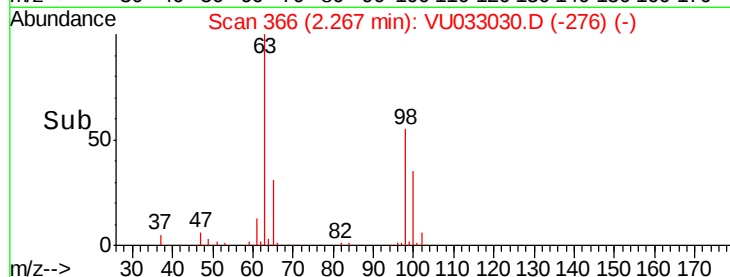
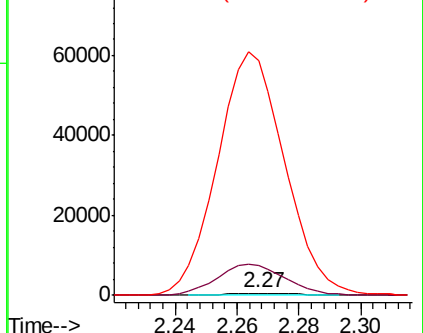
63 11326.4 101.0 187.6#



Abundance Ion 96.00 (95.70 to 96.70): VU033030.D (-276) (-)

Ion 61.00 (60.70 to 61.70): VU033030.D (-276) (-)

Ion 63.00 (62.70 to 63.70): VU033030.D (-276) (-)



#13

Acetone

Concen: 0.562 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU033030.D

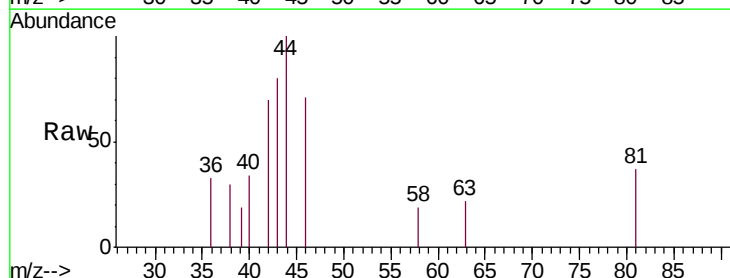
Acq: 25 Jun 2019 00:49

Tgt Ion: 43 Resp: 810

Ion Ratio Lower Upper

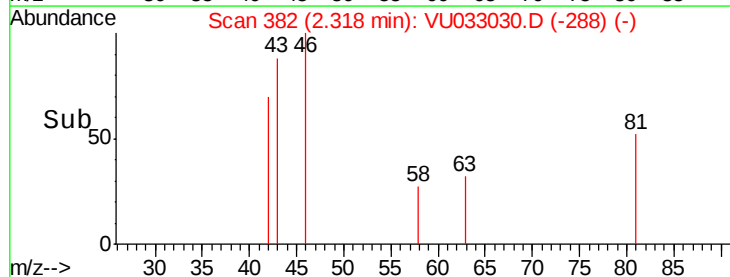
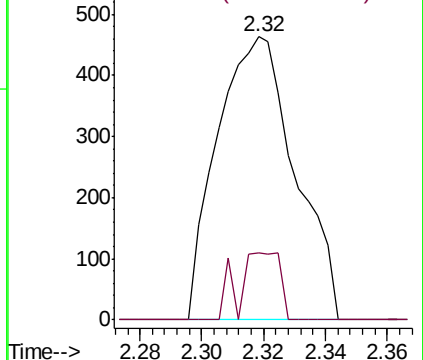
43 100

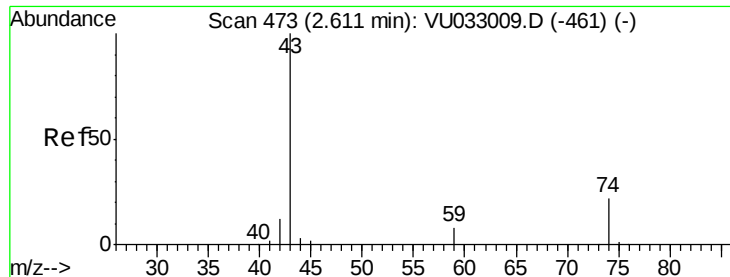
58 7.8 0.0 60.6



Abundance Ion 43.00 (42.70 to 43.70): VU033030.D (-288) (-)

Ion 58.00 (57.70 to 58.70): VU033030.D (-288) (-)





#15

Methyl Acetate

Concen: 1.406 ug/L

RT: 2.44 min Scan# 421

Delta R.T. -0.17 min

Lab File: VU033030.D

Acq: 25 Jun 2019 00:49

Instrument :

MSVOA_U

ClientSampleId :

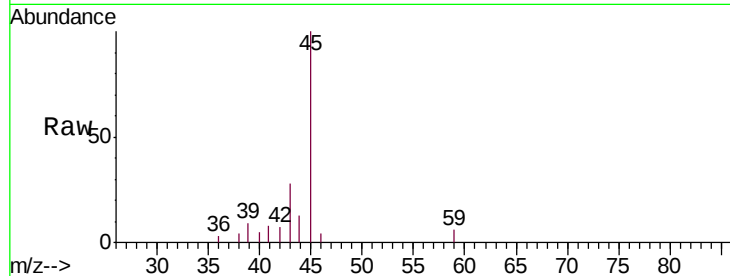
ETF25DL

Tgt Ion: 43 Resp: 2297

Ion Ratio Lower Upper

43 100

74 0.0 18.1 27.1#



Abundance Ion 43.00 (42.70 to 43.70): VU033030.D (-380) (-)

Ion 74.00 (73.70 to 74.70): VU033030.D (-380) (-)

2.44

1500

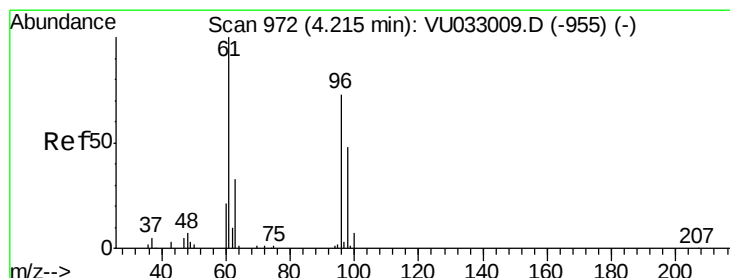
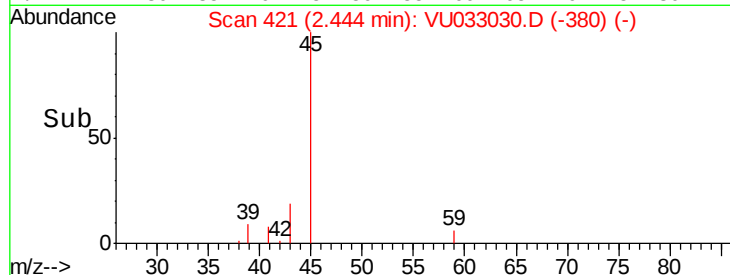
1000

500

0

Time-->

2.40 2.45 2.50



#20

cis-1,2-Dichloroethene

Concen: 50.811 ug/L

RT: 4.22 min Scan# 972

Delta R.T. 0.00 min

Lab File: VU033030.D

Acq: 25 Jun 2019 00:49

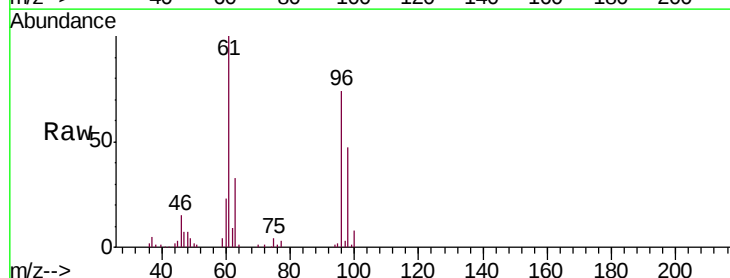
Tgt Ion: 96 Resp: 69322

Ion Ratio Lower Upper

96 100

61 134.3 92.4 171.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033030.D (-879) (-)

Ion 61.00 (60.70 to 61.70): VU033030.D (-879) (-)

Ion 68.00 (67.70 to 68.70): VU033030.D (-879) (-)

4.22

50000

40000

30000

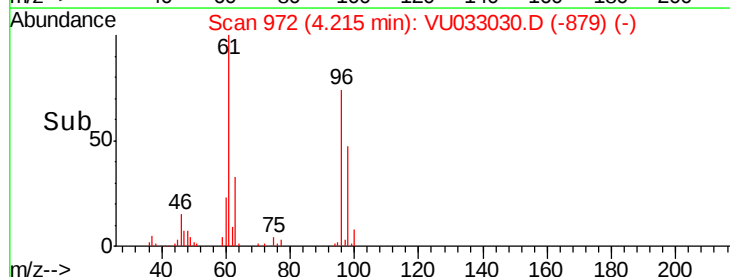
20000

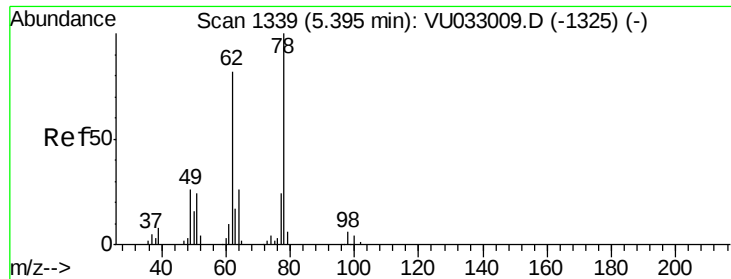
10000

0

Time-->

4.10 4.20 4.30





#27

1,2-Dichloroethane

Concen: 0.821 ug/L

RT: 5.33 min Scan# 1320

Delta R.T. -0.06 min

Lab File: VU033030.D

Acq: 25 Jun 2019 00:49

Instrument :

MSVOA_U

ClientSampleId :

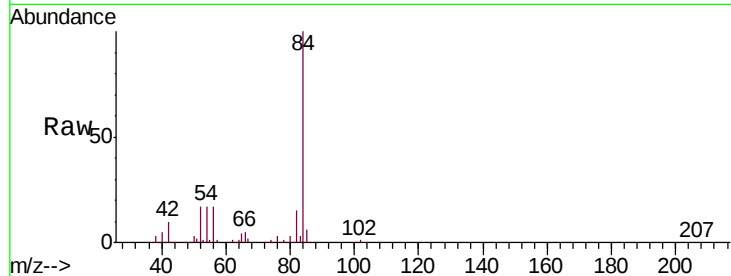
ETF25DL

Tgt Ion: 62 Resp: 1661

Ion Ratio Lower Upper

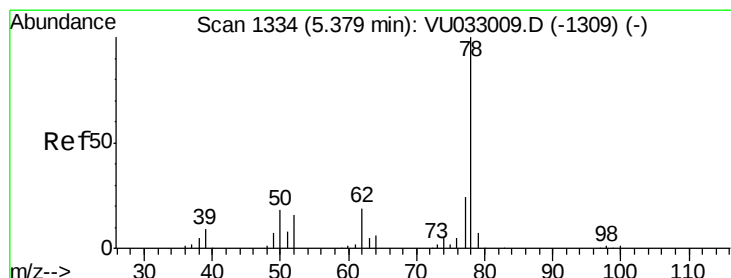
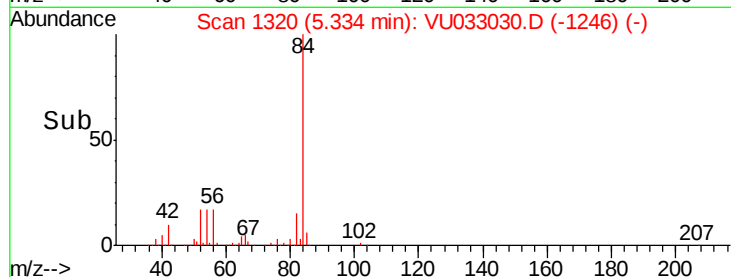
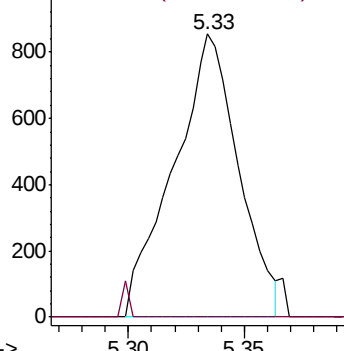
62 100

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: 0.413 ug/L

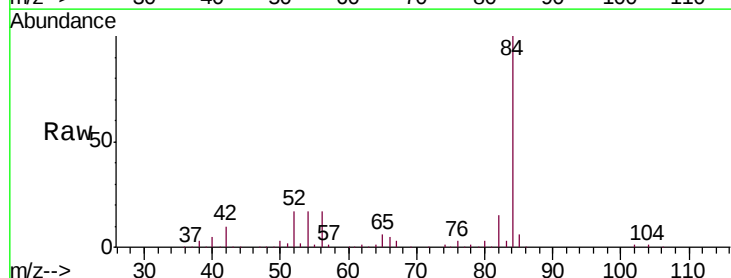
RT: 5.33 min Scan# 1319

Delta R.T. -0.05 min

Lab File: VU033030.D

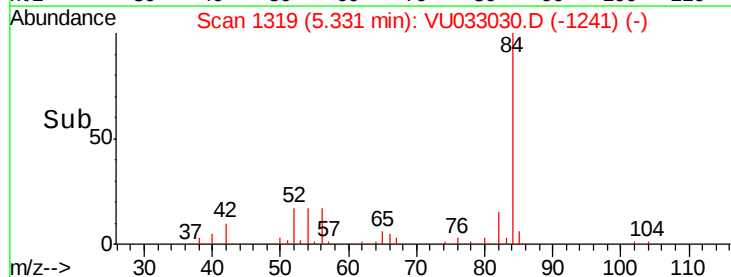
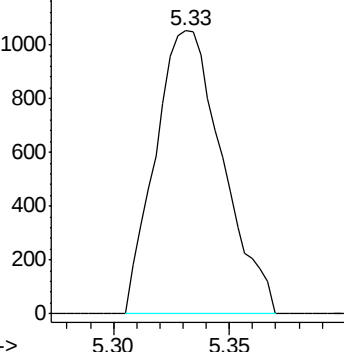
Acq: 25 Jun 2019 00:49

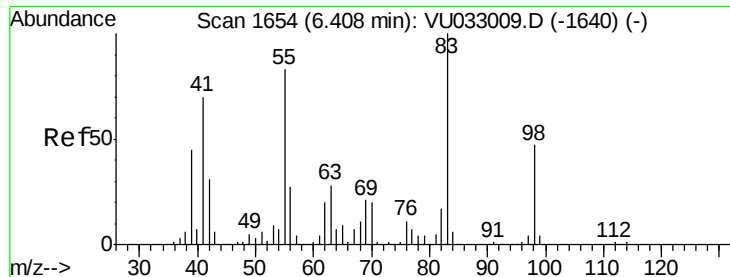
Tgt Ion: 78 Resp: 2115



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#35

Methylcyclohexane

Concen: 8.993 ug/L

RT: 6.32 min Scan# 1628

Delta R.T. -0.08 min

Lab File: VU033030.D

Acq: 25 Jun 2019 00:49

Instrument :

MSVOA_U

ClientSampleId :

ETF25DL

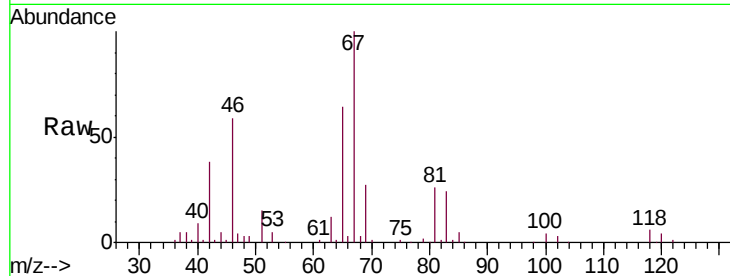
Tgt Ion: 83 Resp: 19024

Ion Ratio Lower Upper

83 100

55 0.4 62.6 94.0#

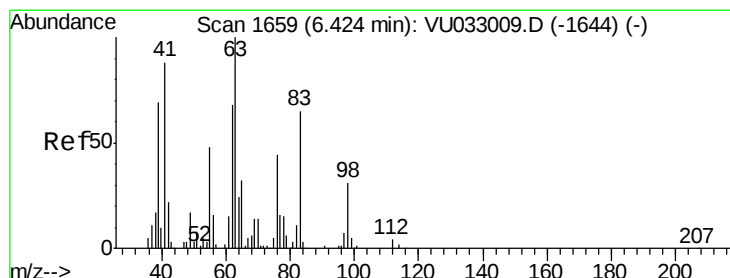
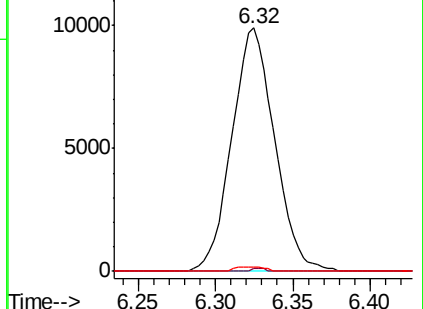
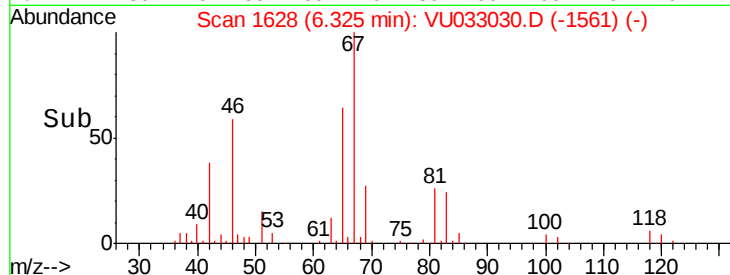
98 1.3 37.4 56.0#



Abundance Ion 83.00 (82.70 to 83.70): VU033030.D (-1561) (-)

Ion 55.00 (54.70 to 55.70): VU033030.D (-1561) (-)

Ion 98.00 (97.70 to 98.70): VU033030.D (-1561) (-)



#37

1,2-Dichloropropane

Concen: 6.876 ug/L

RT: 6.32 min Scan# 1628

Delta R.T. -0.10 min

Lab File: VU033030.D

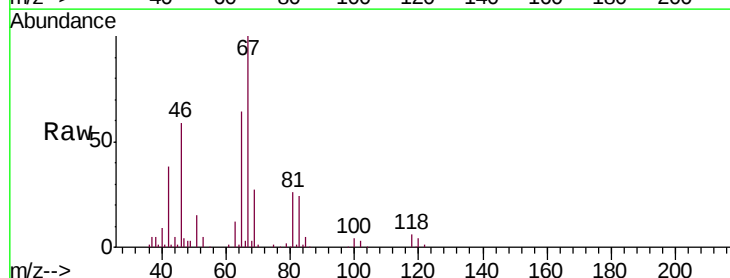
Acq: 25 Jun 2019 00:49

Tgt Ion: 63 Resp: 9661

Ion Ratio Lower Upper

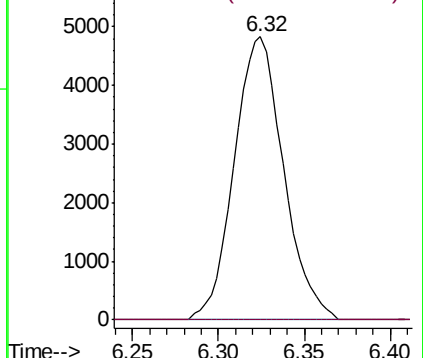
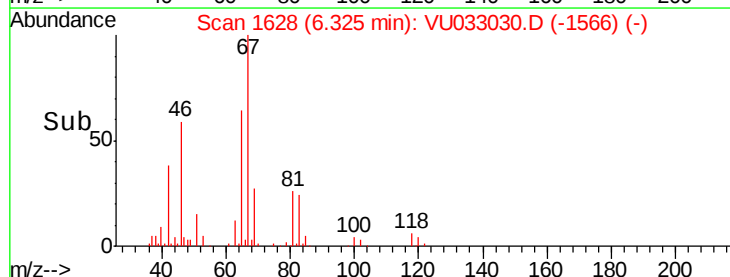
63 100

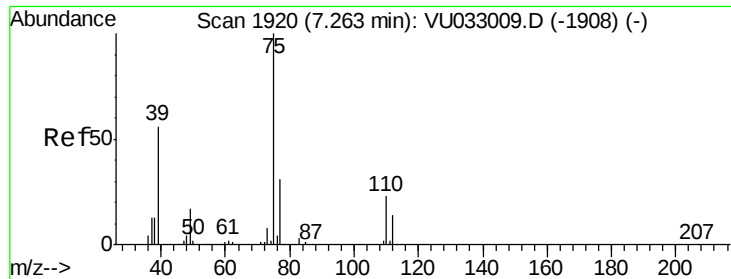
112 0.0 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU033030.D (-1566) (-)

Ion 112.00 (111.70 to 112.70): VU033030.D (-1566) (-)

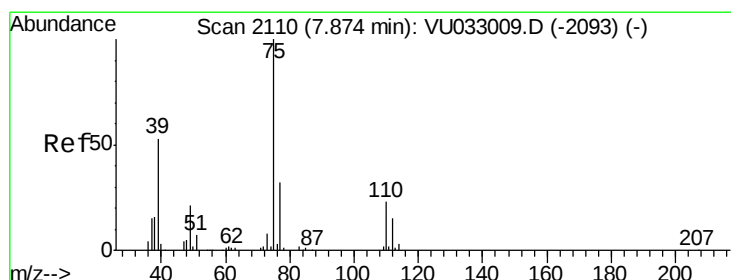
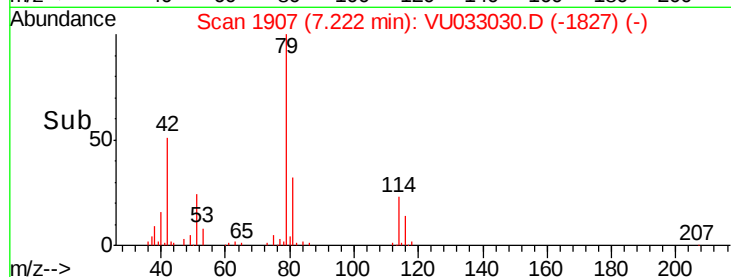
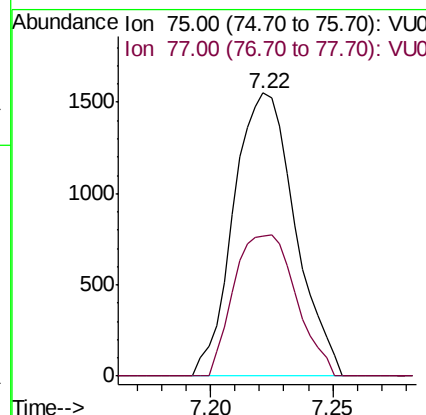
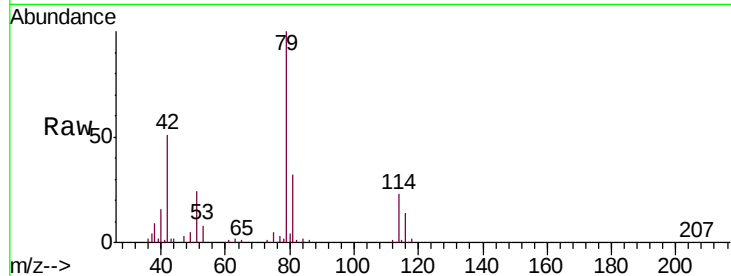




#39
 cis-1,3-Dichloropropene
 Concen: 1.238 ug/L
 RT: 7.22 min Scan# 1907
 Delta R.T. -0.04 min
 Lab File: VU033030.D
 Acq: 25 Jun 2019 00:49

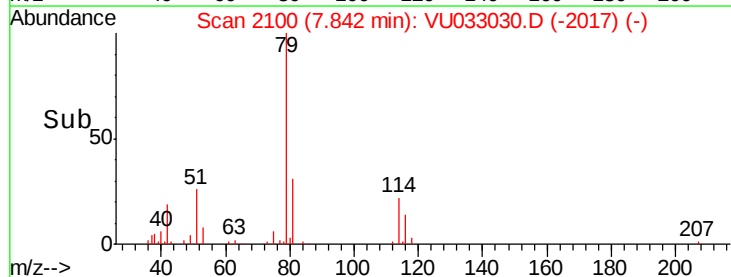
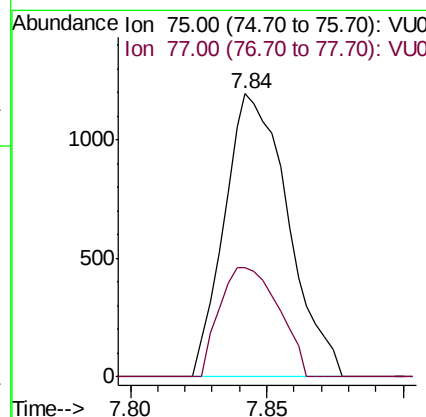
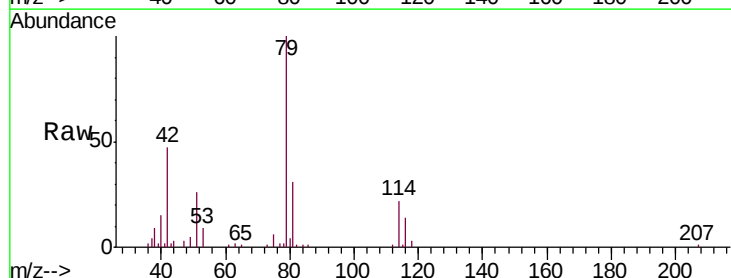
Instrument :
 MSVOA_U
 ClientSampleId :
 ETF25DL

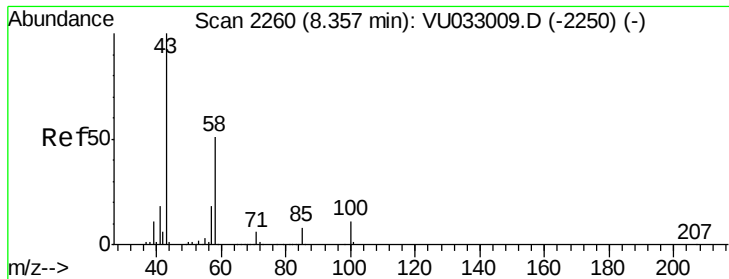
Tgt Ion: 75 Resp: 2711
 Ion Ratio Lower Upper
 75 100
 77 49.6 21.9 40.7#



#44
 trans-1,3-Dichloropropene
 Concen: 0.942 ug/L
 RT: 7.84 min Scan# 2100
 Delta R.T. -0.03 min
 Lab File: VU033030.D
 Acq: 25 Jun 2019 00:49

Tgt Ion: 75 Resp: 1936
 Ion Ratio Lower Upper
 75 100
 77 38.6 21.8 40.4

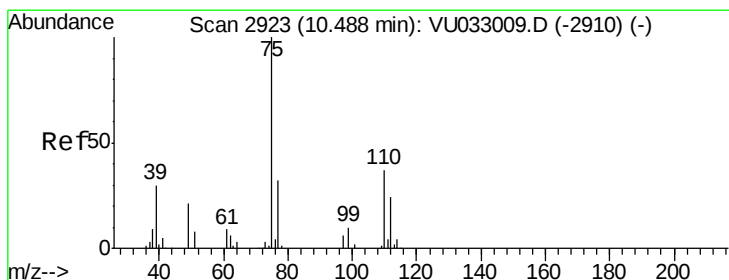
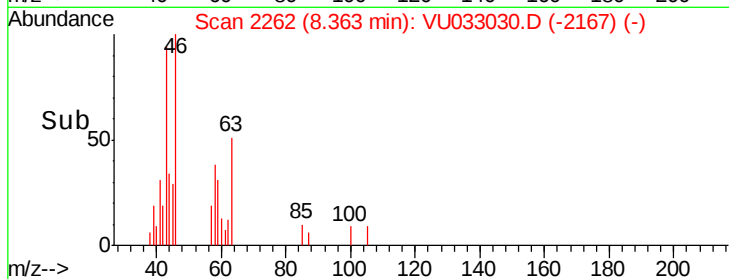
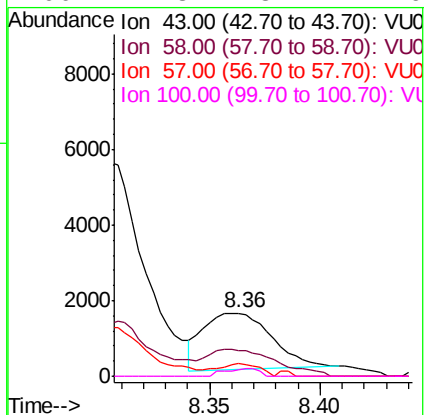
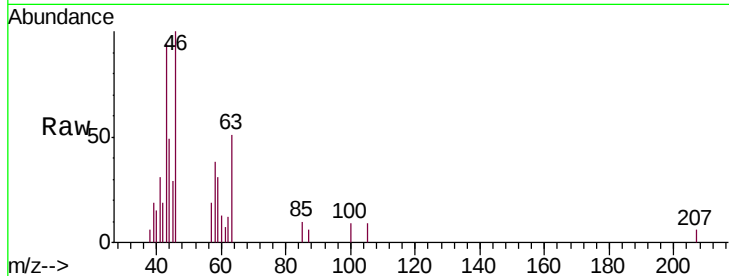




#48
 2-Hexanone
 Concen: 1.651 ug/L
 RT: 8.36 min Scan# 2262
 Delta R.T. 0.01 min
 Lab File: VU033030.D
 Acq: 25 Jun 2019 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 ETF25DL

Tgt Ion:	43	Resp:	3268
Ion	Ratio	Lower	Upper
43	100		
58	47.6	40.2	60.2
57	10.9	14.2	21.4#
100	4.3	8.4	12.6#



#59
 1,2,3-Trichloropropane
 Concen: 5.704 ug/L
 RT: 11.48 min Scan# 3231
 Delta R.T. 0.99 min
 Lab File: VU033030.D
 Acq: 25 Jun 2019 00:49

Tgt Ion:	75	Resp:	10696
Ion	Ratio	Lower	Upper
75	100		
77	38.7	25.5	38.3#

