

Data File : VU028945.D
Acq On : 24 Dec 2018 14:18
Operator : MD/SY
Sample : J6489-09
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
F9F86

Quant Time: Dec 25 00:07:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 25 00:02:36 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	258629	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	248993	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	135127	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	61271	29.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	59.10%#
7) Chloroethane-d5	1.64	69	34092	21.29	ug/L	-0.03
Spiked Amount	50.000	Range	70 - 130	Recovery	=	42.58%#
11) 1,1-Dichloroethene-d2	2.23	63	96760	27.75	ug/L	-0.04
Spiked Amount	50.000	Range	60 - 125	Recovery	=	55.50%#
21) 2-Butanone-d5	4.19	46	117877	81.14	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	81.14%
24) Chloroform-d	4.64	84	127141	39.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.00%
26) 1,2-Dichloroethane-d4	5.30	65	81406	40.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.02%
32) Benzene-d6	5.33	84	282765	40.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.40%
36) 1,2-Dichloropropane-d6	6.32	67	94311	39.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	78.94%
41) Toluene-d8	7.56	98	278658	43.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.42%
43) trans-1,3-Dichloropropene-	7.85	79	47341	44.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.42%
47) 2-Hexanone-d5	8.32	63	110953	97.76	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.76%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	153529	46.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.62%
64) 1,2-Dichlorobenzene-d4	11.86	152	125435	45.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.80%

Target Compounds

					Qvalue
3) Chloromethane	1.32	50	4736	1.652 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.23	101	946	0.564 ug/L #	20
13) Acetone	2.35	43	3188	2.153 ug/L	93
15) Methyl Acetate	2.62	43	8353	3.619 ug/L #	76
27) 1,2-Dichloroethane	5.32	62	1339	0.542 ug/L #	74
29) Cyclohexane	4.97	56	19921	6.011 ug/L	91
35) Methylcyclohexane	6.40	83	113753	35.688 ug/L	97
39) cis-1,3-Dichloropropene	7.22	75	2328	0.737 ug/L #	23
40) 4-Methyl-2-pentanone	7.52	43	9387	3.152 ug/L #	45
42) Toluene	7.64	91	3164	0.394 ug/L	95
44) trans-1,3-Dichloropropene	7.85	75	1715	0.609 ug/L #	1
45) 1,1,2-Trichloroethane	8.04	97	34070	17.983 ug/L #	18
48) 2-Hexanone	8.32	43	58724	24.023 ug/L #	23
52) Ethylbenzene	9.25	91	3804	0.441 ug/L	99
53) m,p-Xylene	9.38	106	13255	4.151 ug/L	95
54) o-xylene	9.78	106	12309	3.846 ug/L	86
56) Isopropylbenzene	10.17	105	39774	4.900 ug/L #	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Dec 25 00:02:36 2018
Response via : Initial Calibration

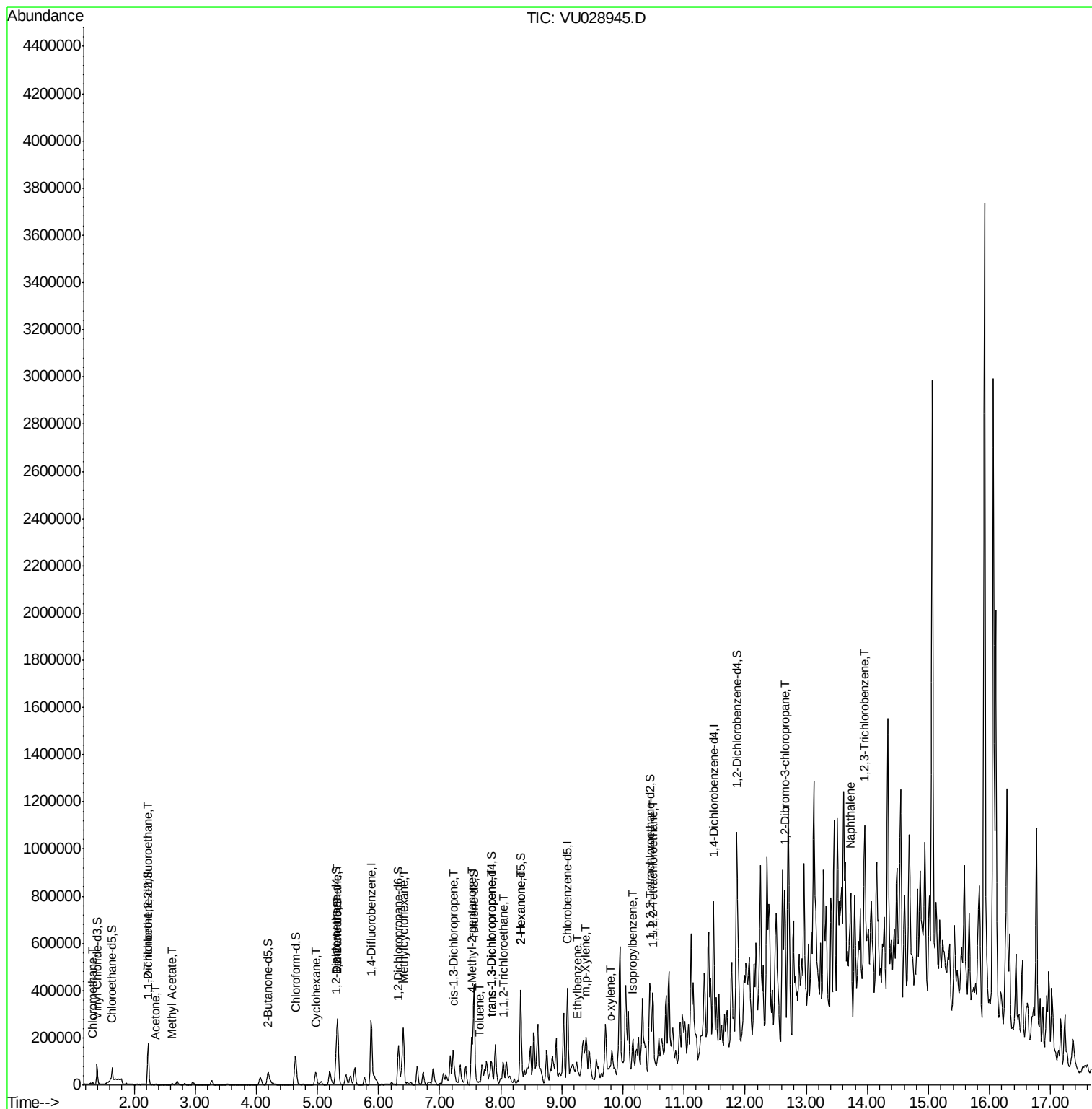
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	10.49	83	32387	9.410	ug/L #	33
66) 1,2-Dibromo-3-chloropropan	12.65	75	2974	3.850	ug/L #	16
69) Naphthalene	13.74	128	30871	3.355	ug/L #	23
70) 1,2,3-Trichlorobenzene	13.95	180	4407	1.542	ug/L #	1

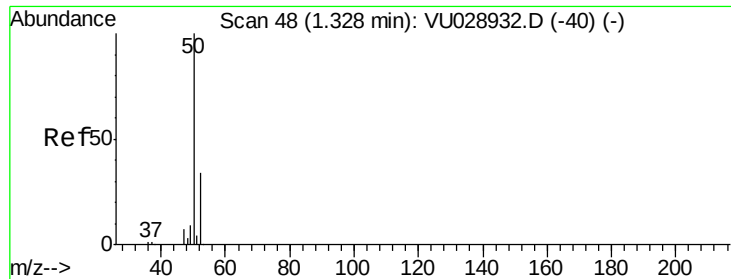
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 1.652 ug/L

RT: 1.32 min Scan# 46

Delta R.T. -0.01 min

Lab File: VU028945.D

Acq: 24 Dec 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

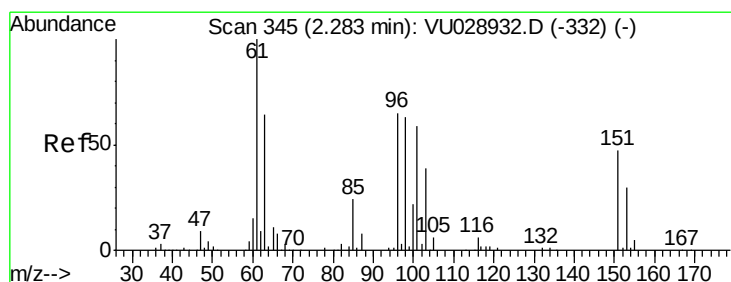
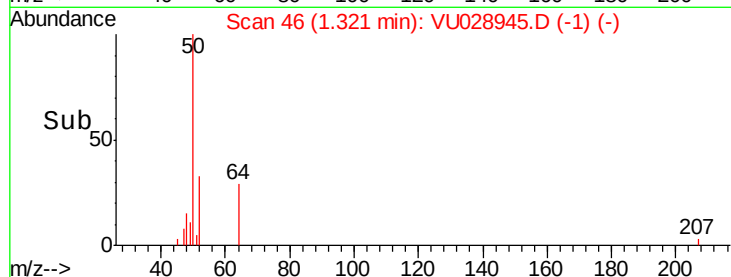
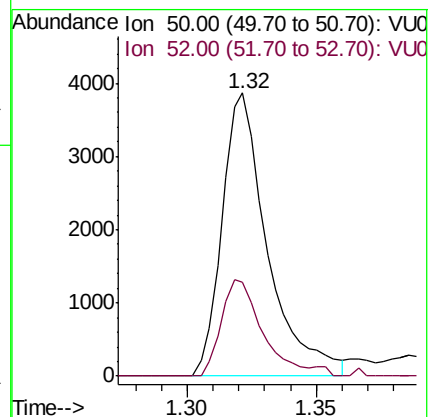
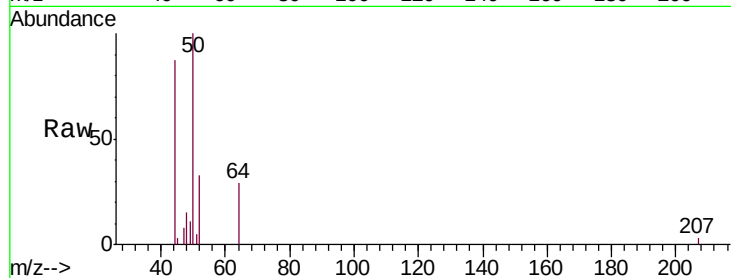
F9F86

Tgt Ion: 50 Resp: 4736

Ion Ratio Lower Upper

50 100

52 33.1 22.3 41.3



#10

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

Concen: 0.564 ug/L

RT: 2.23 min Scan# 328

Delta R.T. -0.05 min

Lab File: VU028945.D

Acq: 24 Dec 2018 14:18

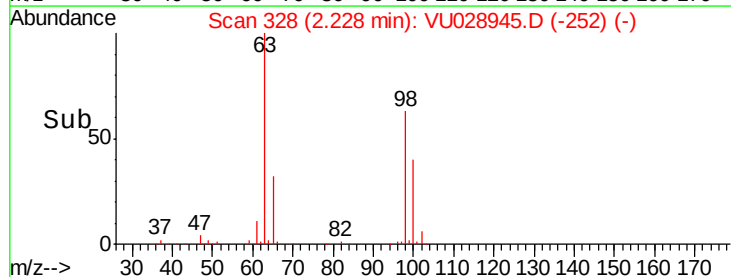
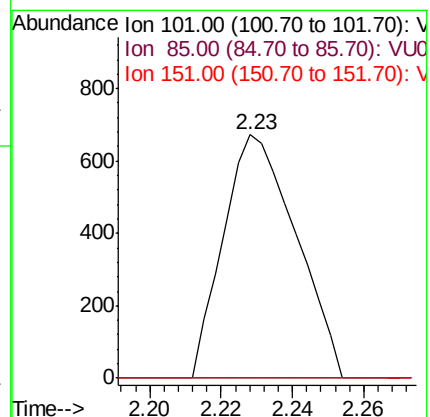
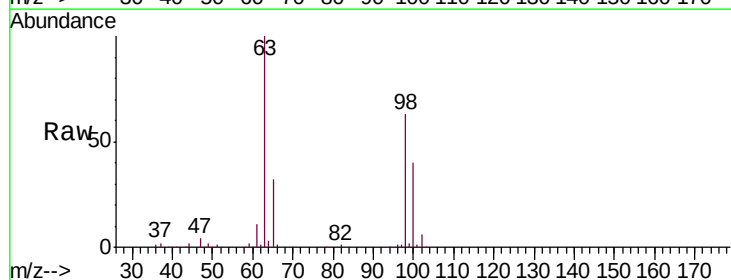
Tgt Ion: 101 Resp: 946

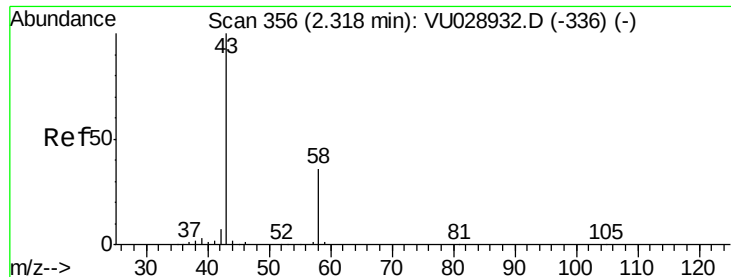
Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

151 0.0 59.4 89.0#





#13

Acetone

Concen: 2.153 ug/L

RT: 2.35 min Scan# 365

Delta R.T. 0.03 min

Lab File: VU028945.D

Acq: 24 Dec 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

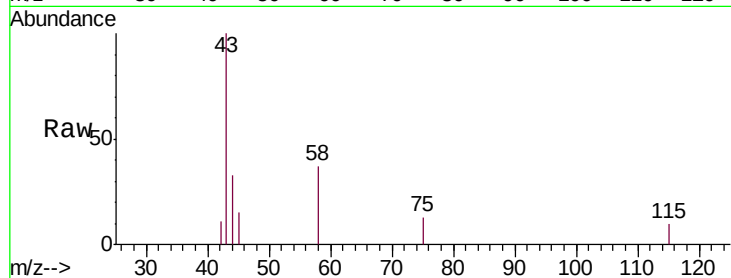
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Tgt Ion: 43 Resp: 3188

Ion Ratio Lower Upper

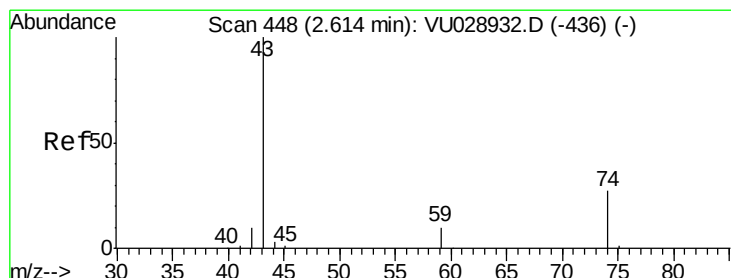
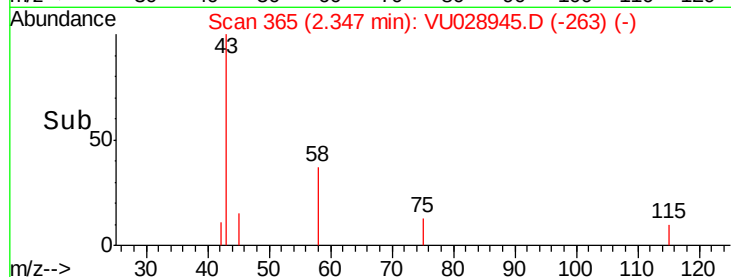
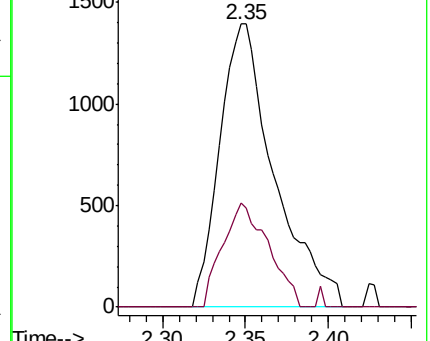
43 100

58 31.0 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#15

Methyl Acetate

Concen: 3.619 ug/L

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028945.D

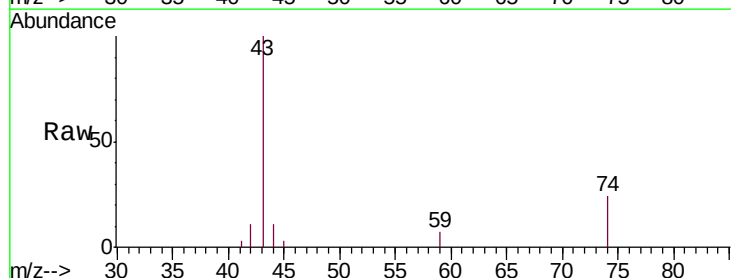
Acq: 24 Dec 2018 14:18

Tgt Ion: 43 Resp: 8353

Ion Ratio Lower Upper

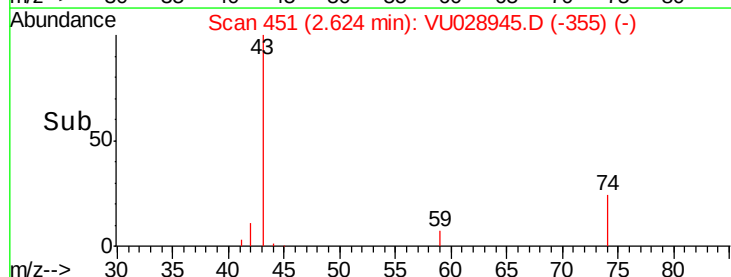
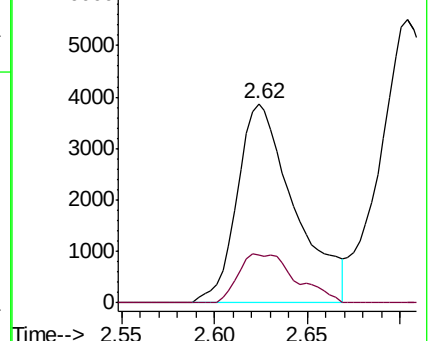
43 100

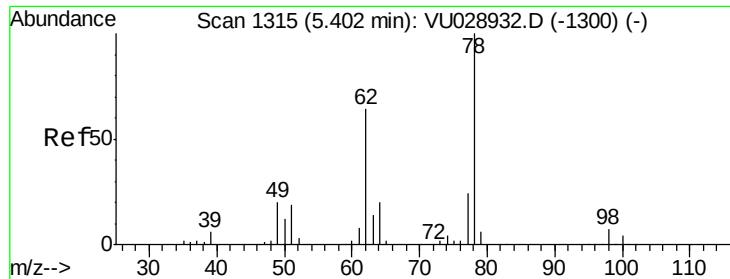
74 11.7 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

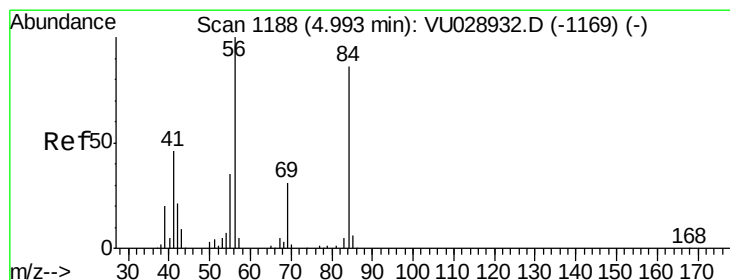
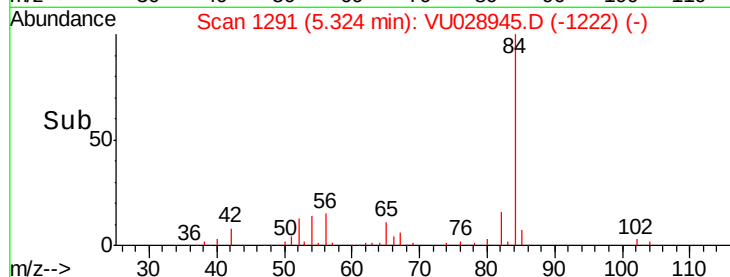
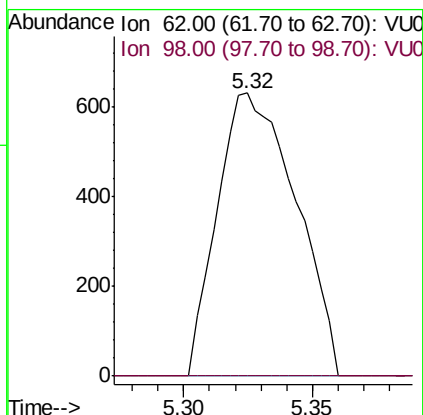
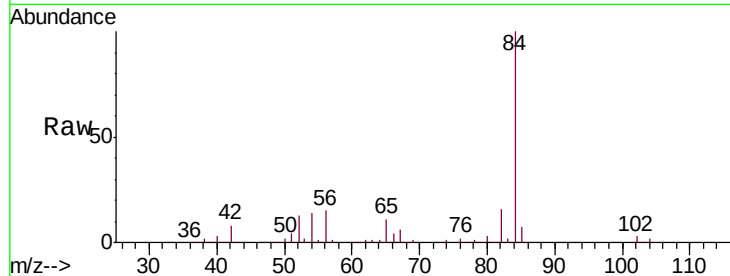




#27
 1,2-Dichloroethane
 Concen: 0.542 ug/L
 RT: 5.32 min Scan# 1291
 Delta R.T. -0.08 min
 Lab File: VU028945.D
 Acq: 24 Dec 2018 14:18

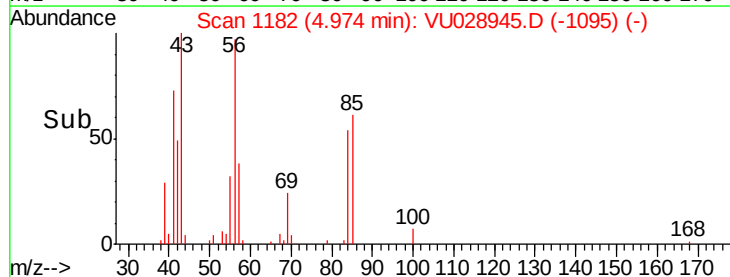
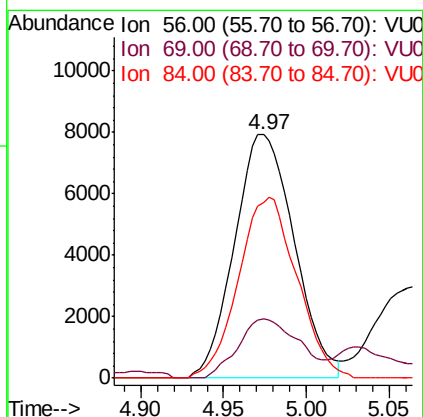
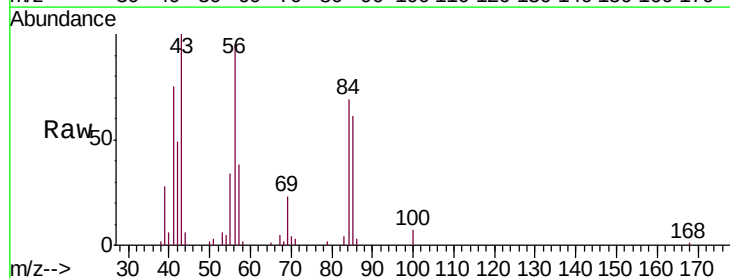
Instrument :
 MSVOA_U
 ClientSampleId :
 F9F86

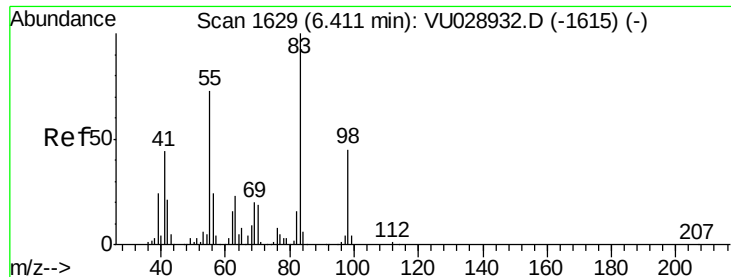
Tgt Ion: 62 Resp: 1339
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.5 11.3#



#29
 Cyclohexane
 Concen: 6.011 ug/L
 RT: 4.97 min Scan# 1182
 Delta R.T. -0.02 min
 Lab File: VU028945.D
 Acq: 24 Dec 2018 14:18

Tgt Ion: 56 Resp: 19921
 Ion Ratio Lower Upper
 56 100
 69 24.5 23.8 35.8
 84 72.6 63.8 95.8

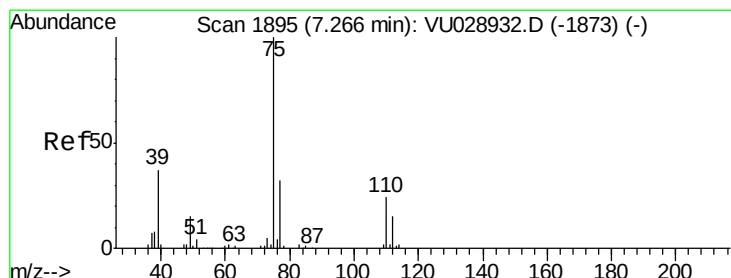
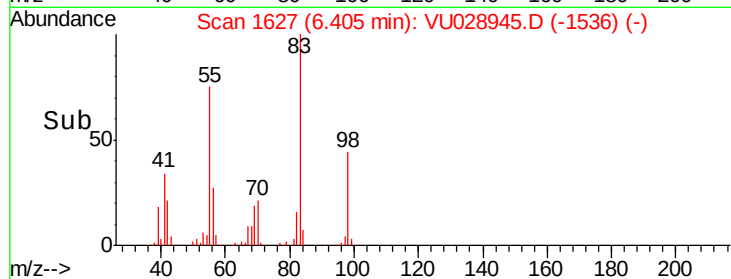
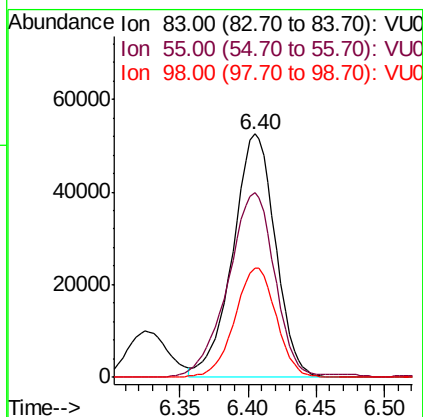
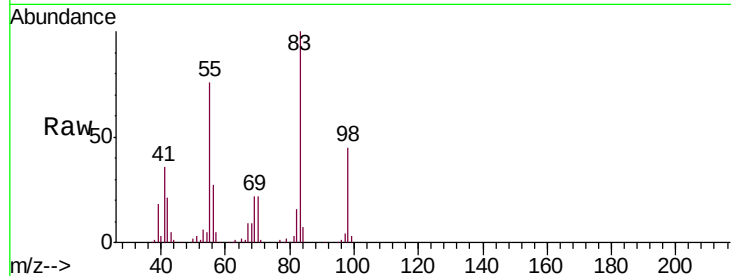




#35
Methylcyclohexane
Concen: 35.688 ug/L
RT: 6.40 min Scan# 1627
Delta R.T. -0.01 min
Lab File: VU028945.D
Acq: 24 Dec 2018 14:18

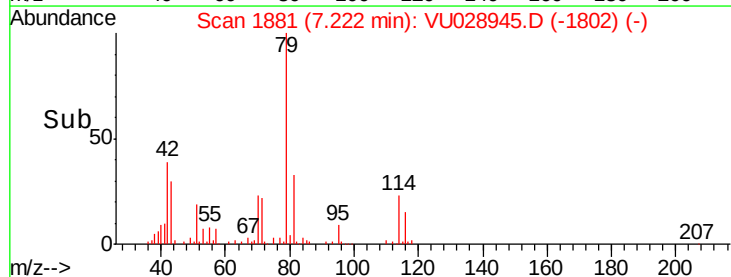
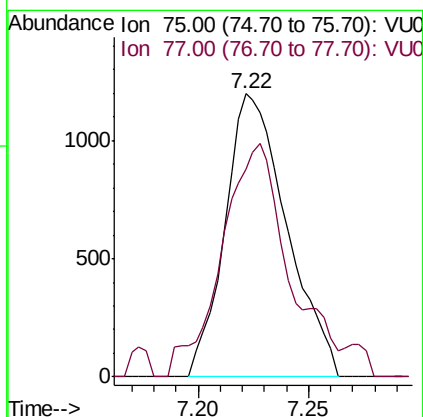
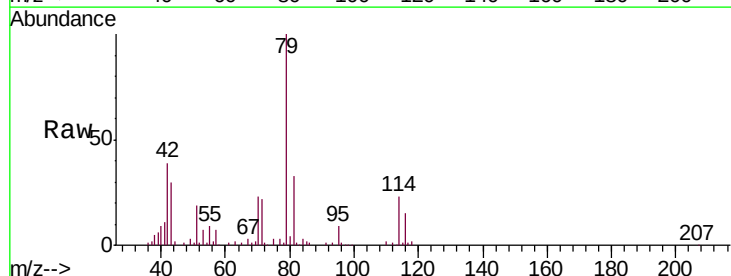
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MSVOA_U
ClientSampleId :
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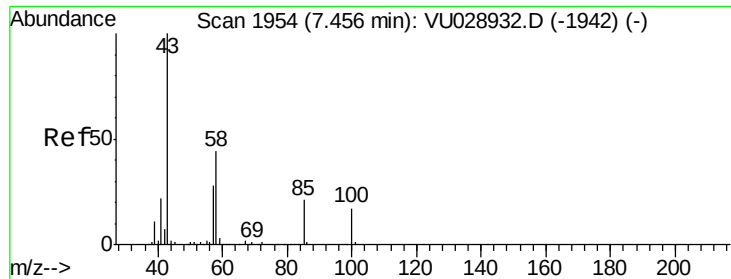
Tgt Ion: 83 Resp: 113753
Ion Ratio Lower Upper
83 100
55 83.1 63.7 95.5
98 43.8 35.6 53.4



#39
cis-1,3-Dichloropropene
Concen: 0.737 ug/L
RT: 7.22 min Scan# 1881
Delta R.T. -0.04 min
Lab File: VU028945.D
Acq: 24 Dec 2018 14:18

Tgt Ion: 75 Resp: 2328
Ion Ratio Lower Upper
75 100
77 73.5 21.8 40.6#

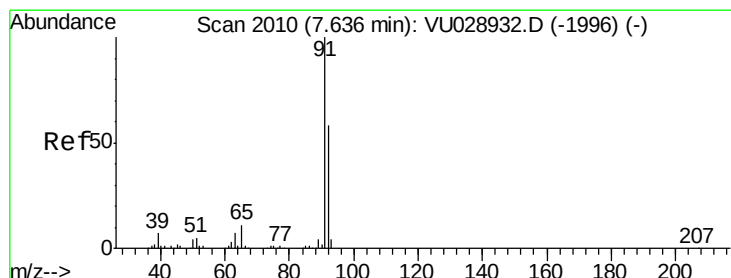
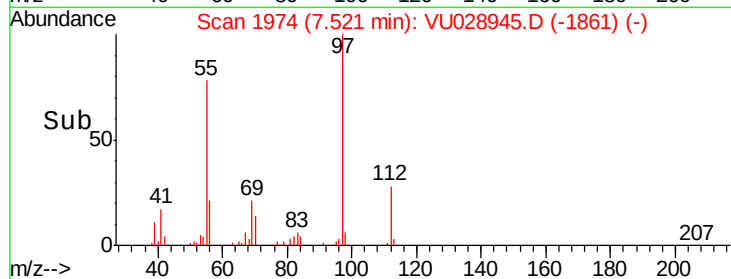
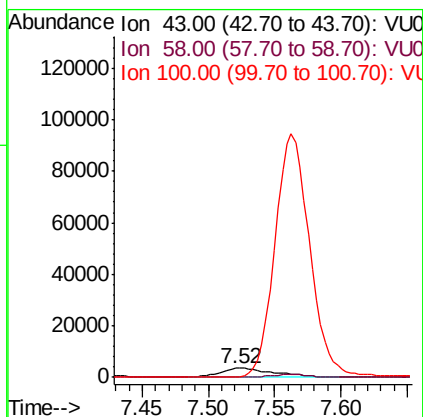
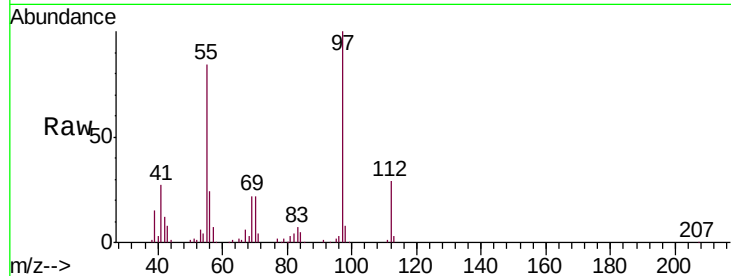




#40
 4-Methyl-2-pentanone
 Concen: 3.152 ug/L
 RT: 7.52 min Scan# 1974
 Delta R.T. 0.06 min
 Lab File: VU028945.D
 Acq: 24 Dec 2018 14:18

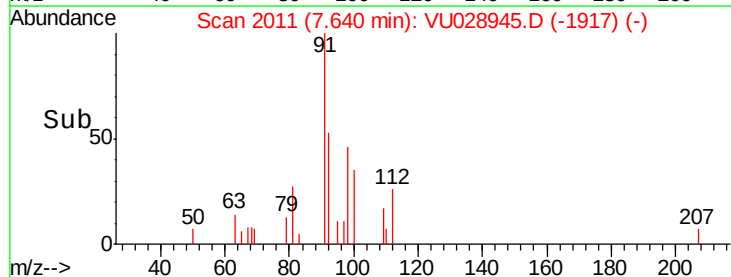
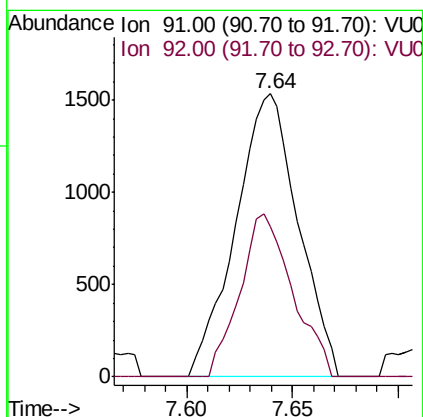
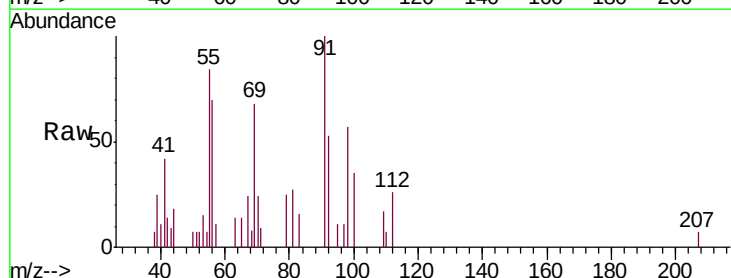
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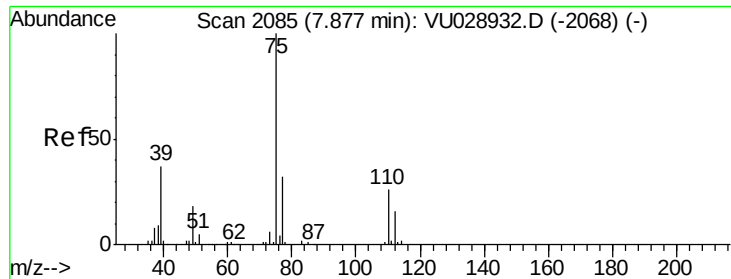
Tgt Ion: 43 Resp: 9387
 Ion Ratio Lower Upper
 43 100
 58 2.5 33.1 49.7#
 100 0.0 11.5 17.3#



#42
 Toluene
 Concen: 0.394 ug/L
 RT: 7.64 min Scan# 2011
 Delta R.T. 0.00 min
 Lab File: VU028945.D
 Acq: 24 Dec 2018 14:18

Tgt Ion: 91 Resp: 3164
 Ion Ratio Lower Upper
 91 100
 92 53.0 39.9 74.1





#44

trans-1,3-Dichloropropene

Concen: 0.609 ug/L

RT: 7.85 min Scan# 2077

Delta R.T. -0.03 min

Lab File: VU028945.D

Acq: 24 Dec 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

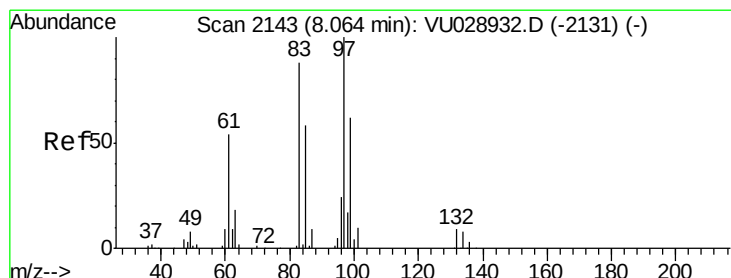
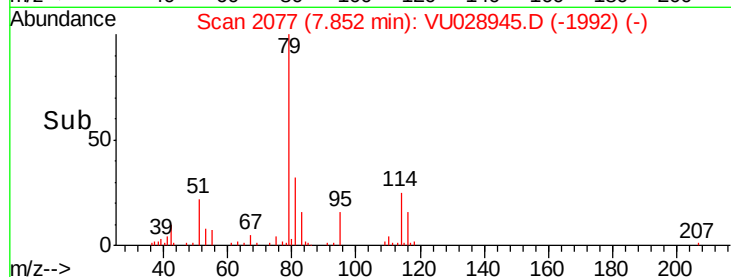
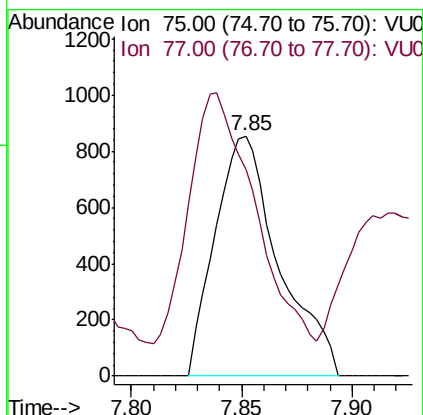
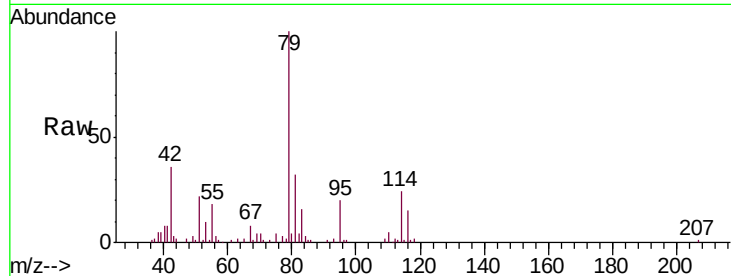
F9F86

Tgt Ion: 75 Resp: 1715

Ion Ratio Lower Upper

75 100

77 86.3 21.8 40.6#



#45

1,1,2-Trichloroethane

Concen: 17.983 ug/L

RT: 8.04 min Scan# 2136

Delta R.T. -0.02 min

Lab File: VU028945.D

Acq: 24 Dec 2018 14:18

Tgt Ion: 97 Resp: 34070

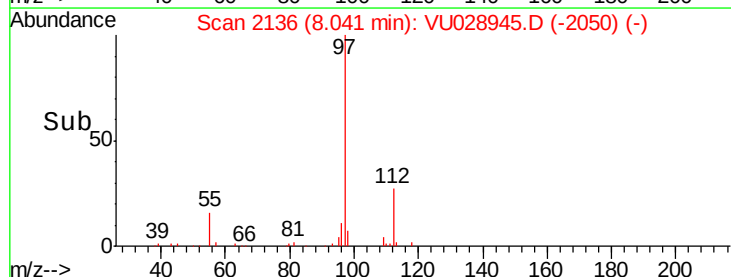
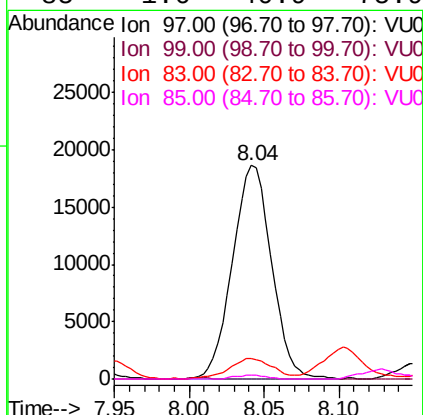
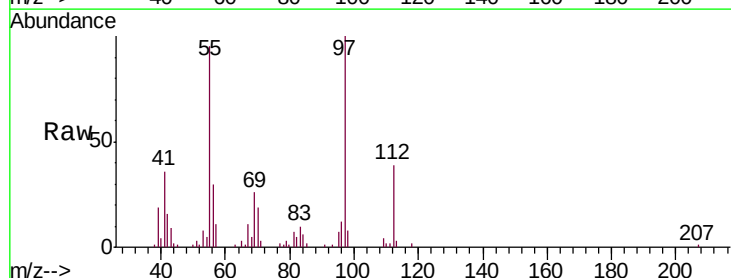
Ion Ratio Lower Upper

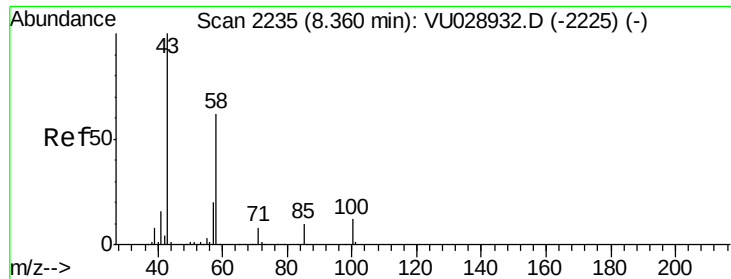
97 100

99 0.0 44.2 82.2#

83 9.6 64.5 119.9#

85 1.6 40.9 75.9#

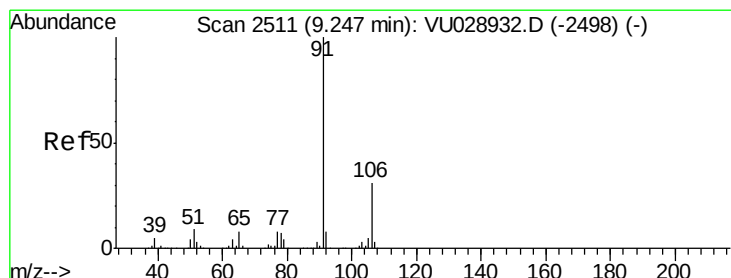
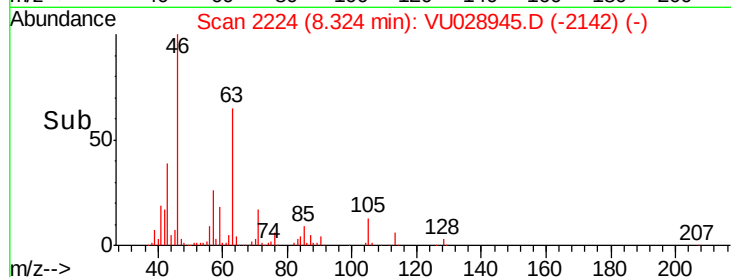
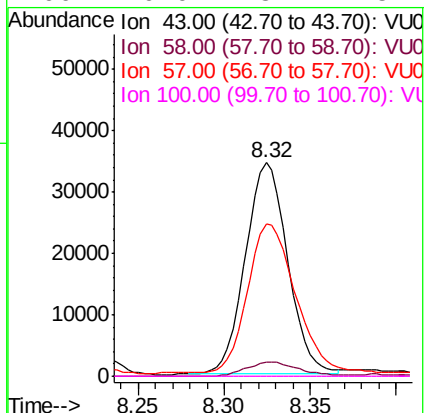
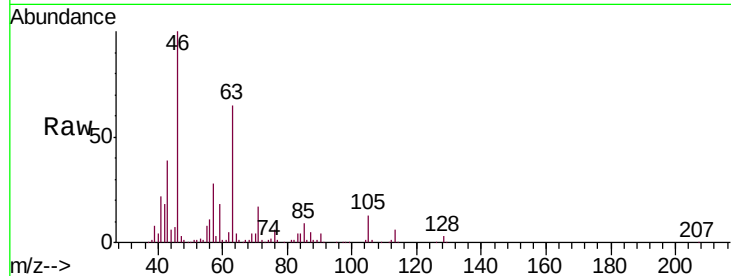




#48
2-Hexanone
Concen: 24.023 ug/L
RT: 8.32 min Scan# 2224
Delta R.T. -0.04 min
Lab File: VU028945.D
Acq: 24 Dec 2018 14:18

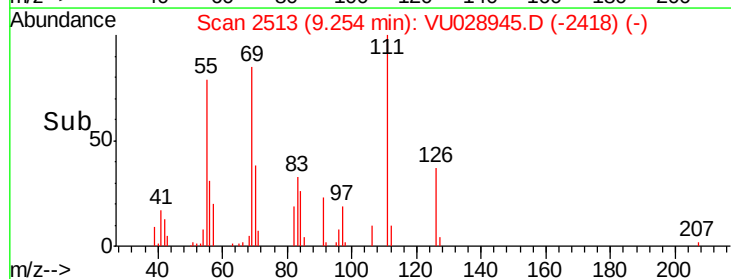
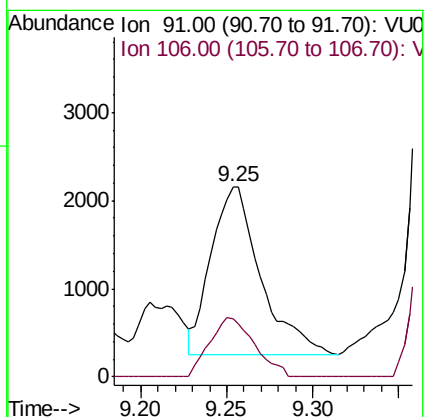
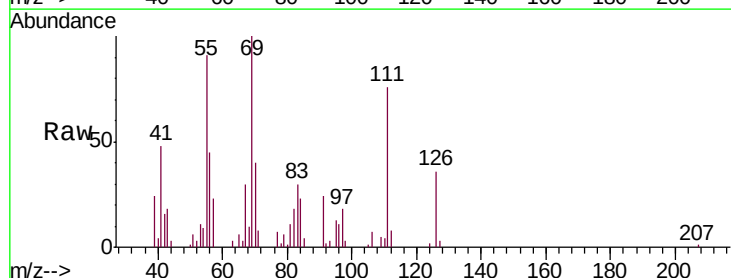
Instrument :
MSVOA_U
ClientSampleId :
F9F86

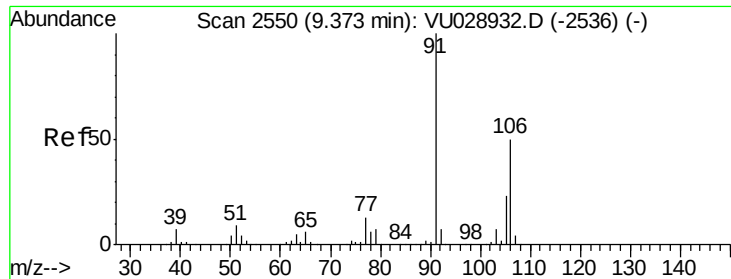
Tgt Ion: 43 Resp: 58724
Ion Ratio Lower Upper
43 100
58 8.3 45.9 68.9#
57 80.1 15.0 22.4#
100 0.0 8.7 13.1#



#52
Ethylbenzene
Concen: 0.441 ug/L
RT: 9.25 min Scan# 2513
Delta R.T. 0.01 min
Lab File: VU028945.D
Acq: 24 Dec 2018 14:18

Tgt Ion: 91 Resp: 3804
Ion Ratio Lower Upper
91 100
106 30.6 20.9 38.9





#53

m,p-Xylene

Concen: 4.151 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.01 min

Lab File: VU028945.D

Acq: 24 Dec 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

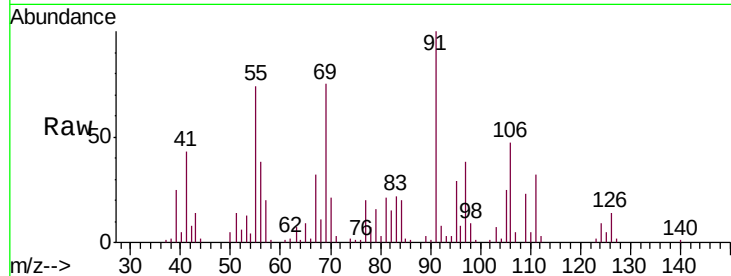
F9F86

Tgt Ion:106 Resp: 13255

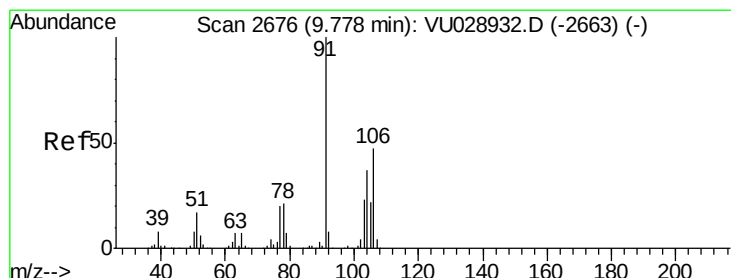
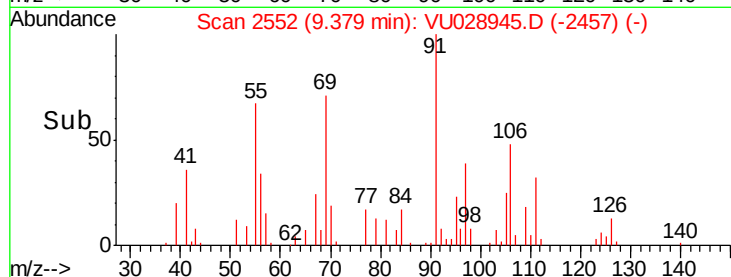
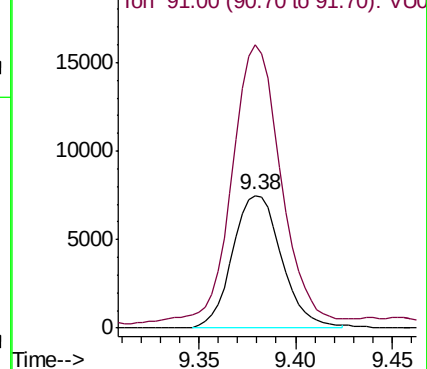
Ion Ratio Lower Upper

106 100

91 213.3 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V



#54

o-xylene

Concen: 3.846 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU028945.D

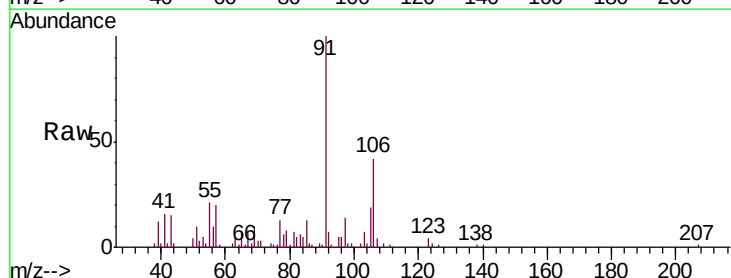
Acq: 24 Dec 2018 14:18

Tgt Ion:106 Resp: 12309

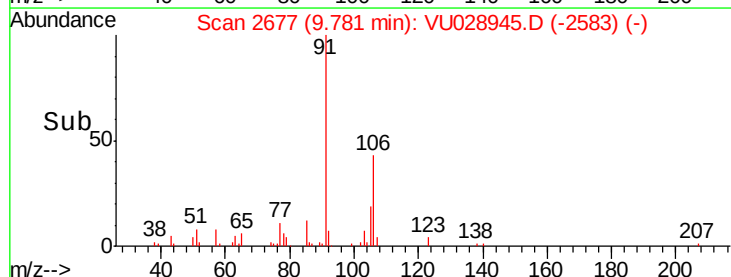
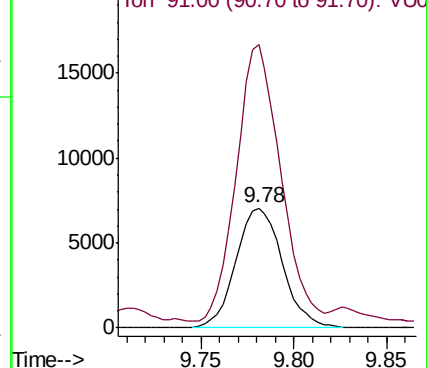
Ion Ratio Lower Upper

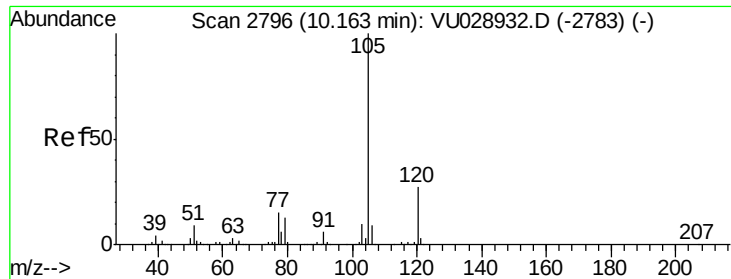
106 100

91 236.7 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V





#56

Isopropylbenzene

Concen: 4.900 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028945.D

Acq: 24 Dec 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

F9F86

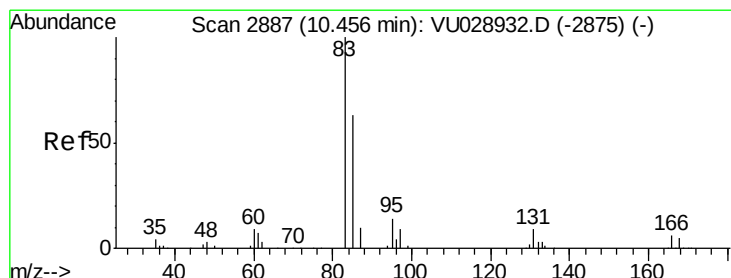
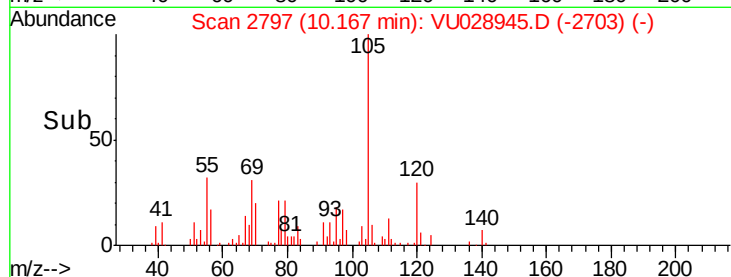
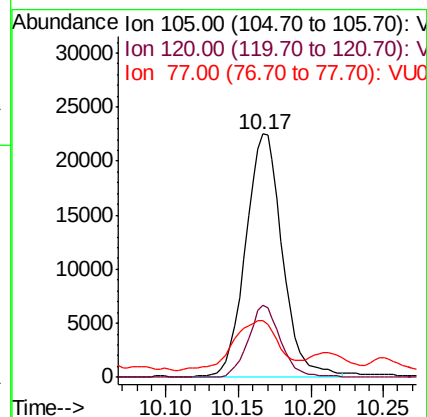
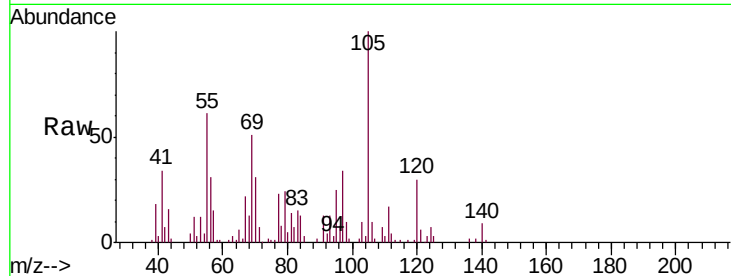
Tgt Ion:105 Resp: 39774

Ion Ratio Lower Upper

105 100

120 26.0 21.4 32.2

77 25.2 12.3 18.5#



#58

1,1,2,2-Tetrachloroethane

Concen: 9.410 ug/L

RT: 10.49 min Scan# 2897

Delta R.T. 0.03 min

Lab File: VU028945.D

Acq: 24 Dec 2018 14:18

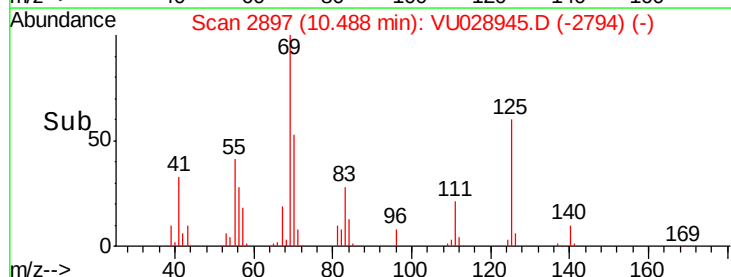
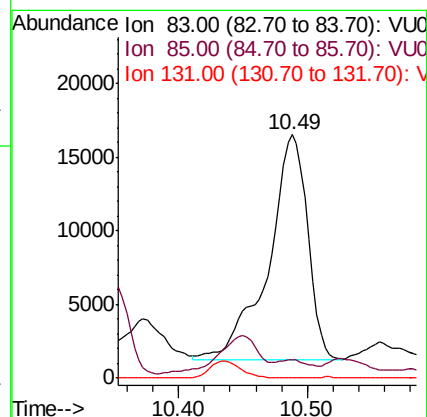
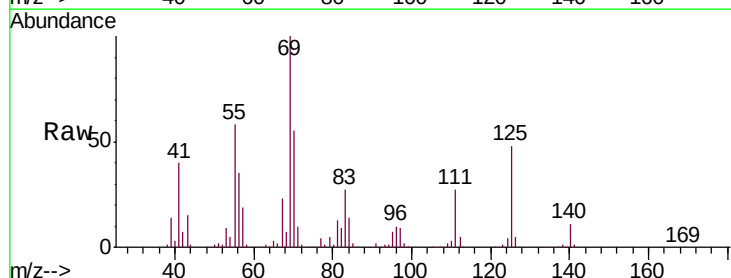
Tgt Ion: 83 Resp: 32387

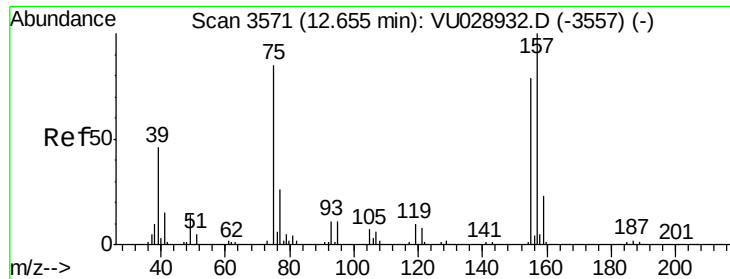
Ion Ratio Lower Upper

83 100

85 7.7 45.3 84.1#

131 0.0 6.7 10.1#

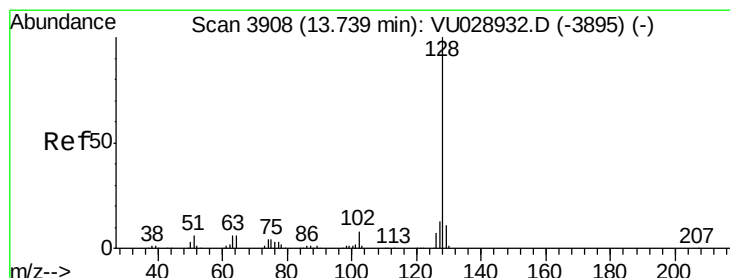
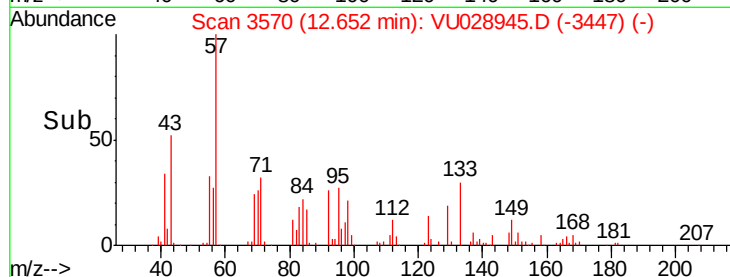
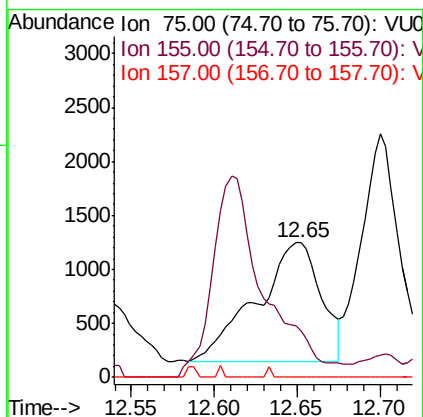
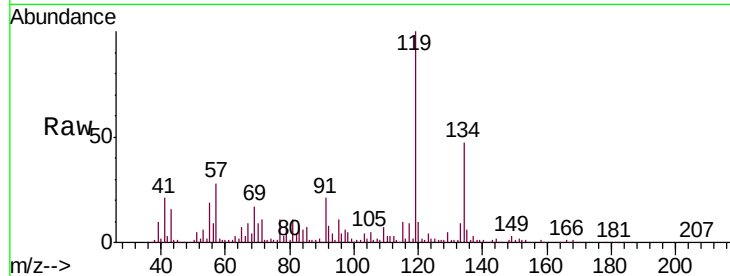




#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.850 ug/L
 RT: 12.65 min Scan# 3570
 Delta R.T. -0.00 min
 Lab File: VU028945.D
 Acq: 24 Dec 2018 14:18

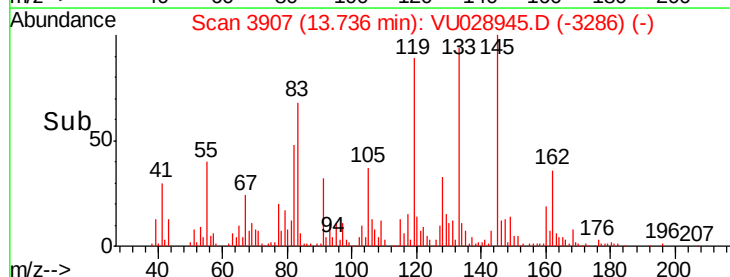
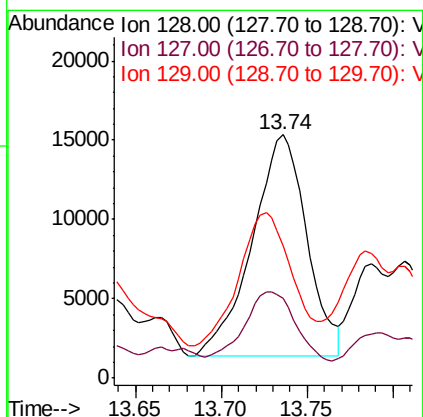
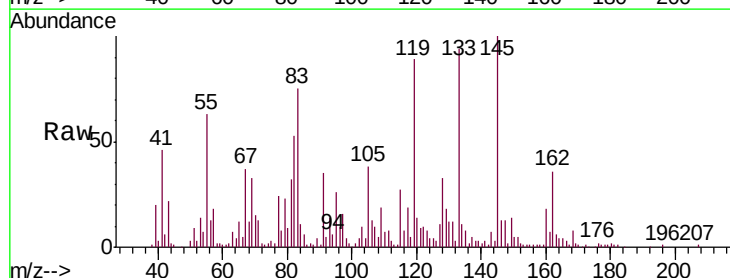
Instrument :
 MSVOA_U
 ClientSampled :
 F9F86

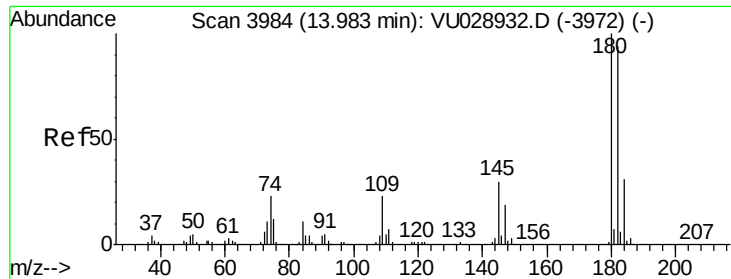
Tgt Ion: 75 Resp: 2974
 Ion Ratio Lower Upper
 75 100
 155 34.2 71.4 107.2#
 157 0.0 89.6 134.4#



#69
 Naphthalene
 Concen: 3.355 ug/L
 RT: 13.74 min Scan# 3907
 Delta R.T. -0.00 min
 Lab File: VU028945.D
 Acq: 24 Dec 2018 14:18

Tgt Ion: 128 Resp: 30871
 Ion Ratio Lower Upper
 128 100
 127 28.2 10.5 15.7#
 129 58.0 8.7 13.1#





#70
 1,2,3-Trichlorobenzene
 Concen: 1.542 ug/L
 RT: 13.95 min Scan# 3975
 Delta R.T. -0.03 min
 Lab File: VU028945.D
 Acq: 24 Dec 2018 14:18

Instrument :
 MSVOA_U
 ClientSampleId :
 F9F86

Tgt Ion:180 Resp: 4407
 Ion Ratio Lower Upper
 180 100
 182 46.8 75.8 113.8#
 145 2976.4 24.5 36.7#

