

Data File : VU029413.D
Acq On : 12 Feb 2019 12:11
Operator : JC/SP
Sample : VSTD0.545
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.545

Quant Time: Feb 13 02:57:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Feb 13 02:55:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	223495	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	205734	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	107889	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	7634	0.47	ug/L	0.00
7) Chloroethane-d5	1.68	69	6896	0.52	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	17155	0.52	ug/L	0.00
20) 2-Butanone-d5	4.22	46	15190	5.14	ug/L	0.03
24) Chloroform-d	4.65	84	11745	0.48	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.32	65	6675	0.52	ug/L	0.00
32) Benzene-d6	5.34	84	25076	0.50	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	7803	0.53	ug/L	0.00
41) Toluene-d8	7.56	98	24380	0.49	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.86	79	3219	0.47	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	14113	4.80	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	6478	0.52	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	10225	0.52	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	9867	0.544 ug/L	97
3) Chloromethane	1.32	50	9909	0.580 ug/L	93
5) Vinyl chloride	1.40	62	10970	0.568 ug/L	98
6) Bromomethane	1.63	94	5790	0.425 ug/L	99
8) Chloroethane	1.70	64	10455	0.856 ug/L	84
9) Trichlorofluoromethane	1.88	101	16673	0.562 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	9662	0.547 ug/L	99
12) 1,1-Dichloroethene	2.28	96	9494	0.571 ug/L	98
13) Acetone	2.35	43	14746	6.015 ug/L	95
14) Carbon disulfide	2.48	76	29883	0.535 ug/L	98
15) Methyl Acetate	2.63	43	3371	0.502 ug/L #	80
16) Methylene chloride	2.70	84	12499	0.683 ug/L	97
17) Methyl tert-butyl Ether	3.00	73	22941	0.549 ug/L #	89
18) trans-1,2-Dichloroethene	2.98	96	9889	0.549 ug/L	89
19) 1,1-Dichloroethane	3.44	63	16899	0.644 ug/L	94
21) 2-Butanone	4.30	43	16575	5.500 ug/L	93
22) cis-1,2-Dichloroethene	4.22	96	9538	0.588 ug/L	93
23) Bromochloromethane	4.55	128	4064	0.552 ug/L	92
25) Chloroform	4.67	83	14595	0.554 ug/L	100
27) 1,2-Dichloroethane	5.41	62	8416	0.547 ug/L #	92
29) 1,1,1-Trichloroethane	4.91	97	12868	0.557 ug/L	99
30) Cyclohexane	4.99	56	12288	0.557 ug/L	98
31) Carbon tetrachloride	5.13	117	11715	0.554 ug/L	98
33) Benzene	5.39	78	31505	0.587 ug/L	100
34) Trichloroethene	6.18	95	8788	0.575 ug/L	96
35) Methylcyclohexane	6.41	83	14911	0.570 ug/L	98
37) 1,2-Dichloropropane	6.43	63	7808	0.572 ug/L #	91
38) Bromodichloromethane	6.76	83	10132	0.547 ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	11945	0.545 ug/L	93
40) 4-Methyl-2-pentanone	7.47	43	44387	5.780 ug/L	99

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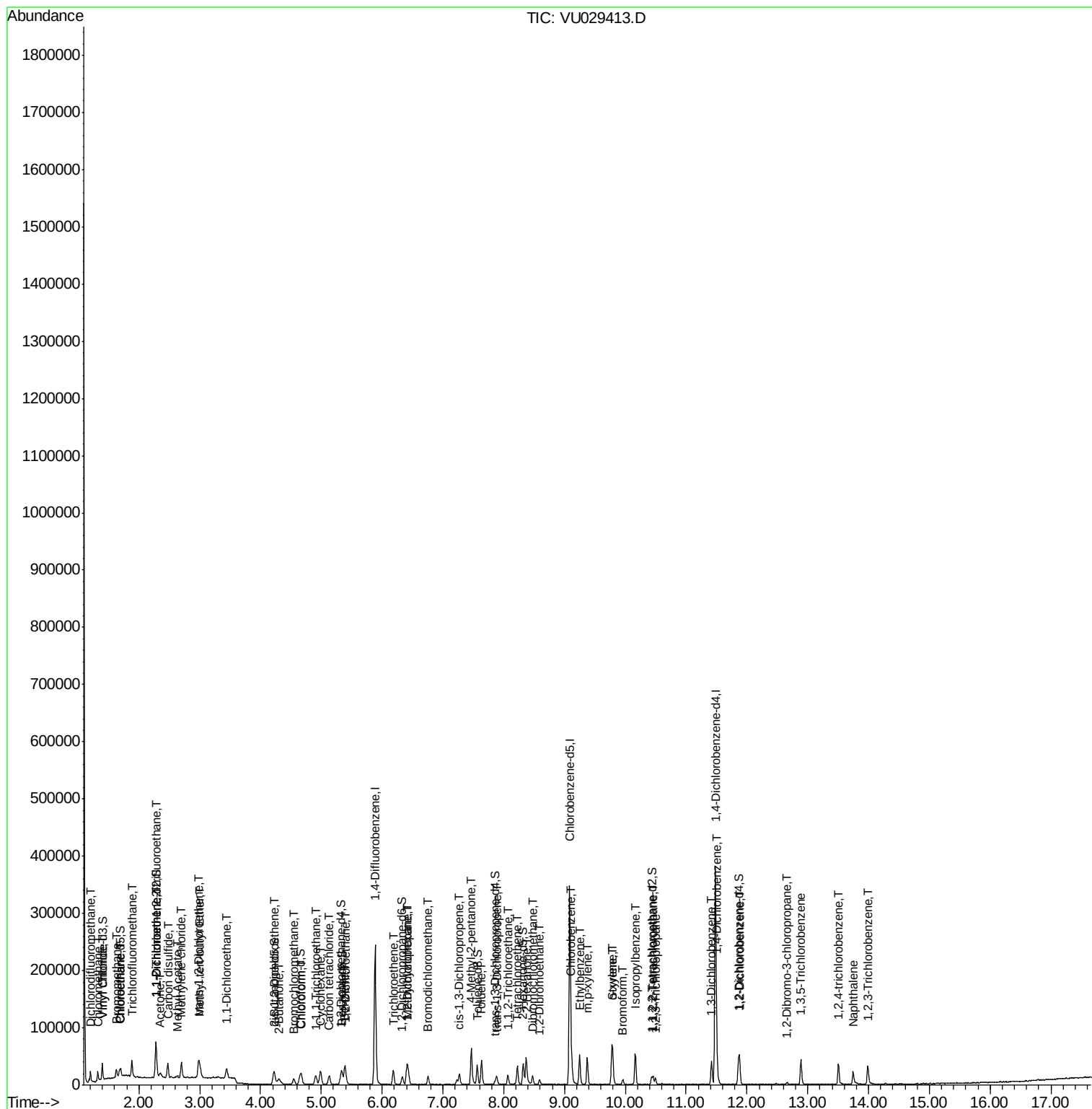
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	34016	0.555	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	9850	0.542	ug/L	92
45) 1,1,2-Trichloroethane	8.07	97	5961	0.563	ug/L	90
47) Tetrachloroethene	8.22	164	7631	0.537	ug/L	98
48) 2-Hexanone	8.37	43	32799	6.123	ug/L	99
49) Dibromochloromethane	8.48	129	7554	0.524	ug/L	94
50) 1,2-Dibromoethane	8.59	107	5810	0.565	ug/L #	93
51) Chlorobenzene	9.12	112	23816	0.564	ug/L	97
52) Ethylbenzene	9.25	91	38215	0.549	ug/L	99
53) m,p-xylene	9.37	106	15289	0.551	ug/L	97
54) o-xylene	9.78	106	14697	0.543	ug/L	95
55) Styrene	9.79	104	23952	0.533	ug/L	99
56) Isopropylbenzene	10.16	105	37968	0.530	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	7010	0.540	ug/L #	95
59) 1,2,3-Trichloropropane	10.49	75	4939	0.572	ug/L	96
61) Bromoform	9.96	173	4500	0.524	ug/L	97
62) 1,3-Dichlorobenzene	11.42	146	19534	0.574	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	19118	0.554	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	18609	0.584	ug/L	90
66) 1,2-Dibromo-3-chloropropan	12.66	75	1183	0.558	ug/L	86
67) 1,3,5-Trichlorobenzene	12.89	180	16168	0.575	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	12570	0.515	ug/L	96
69) Naphthalene	13.75	128	23450	0.614	ug/L	97
70) 1,2,3-Trichlorobenzene	13.99	180	13427	0.606	ug/L	97

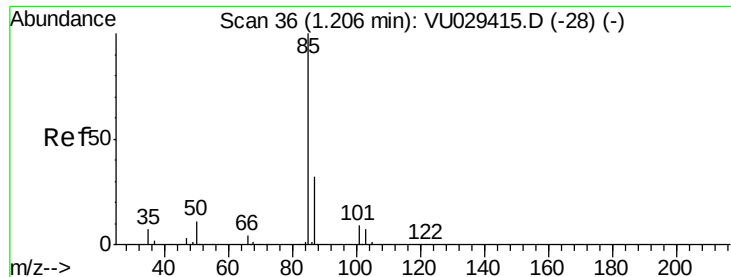
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.544 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

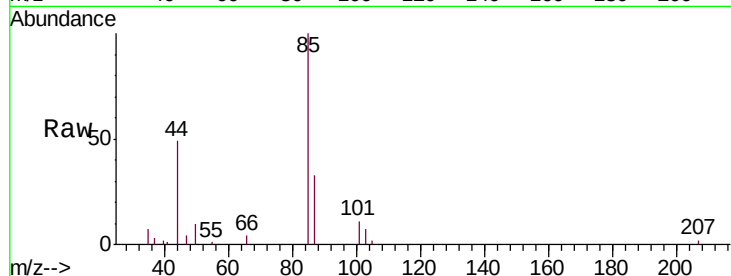
VSTD0.545

Tgt Ion: 85 Resp: 9867

Ion Ratio Lower Upper

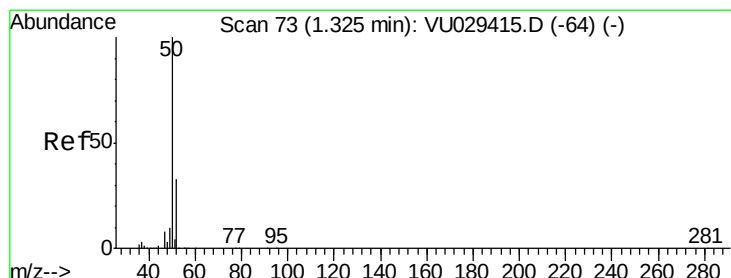
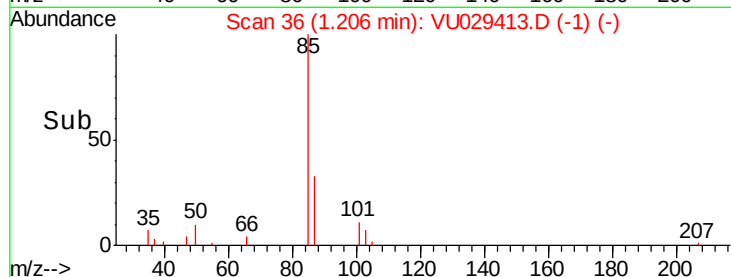
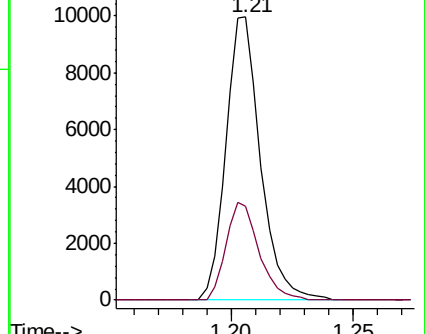
85 100

87 33.2 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.580 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU029413.D

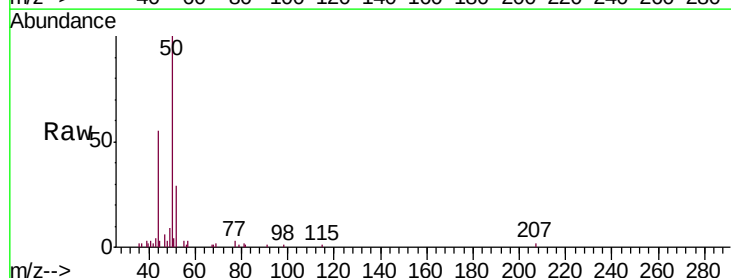
Acq: 12 Feb 2019 12:11

Tgt Ion: 50 Resp: 9909

Ion Ratio Lower Upper

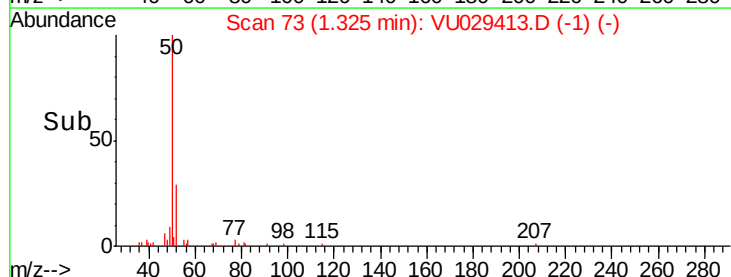
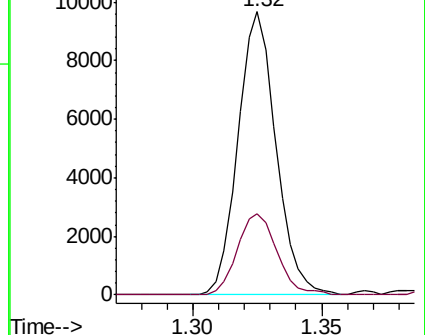
50 100

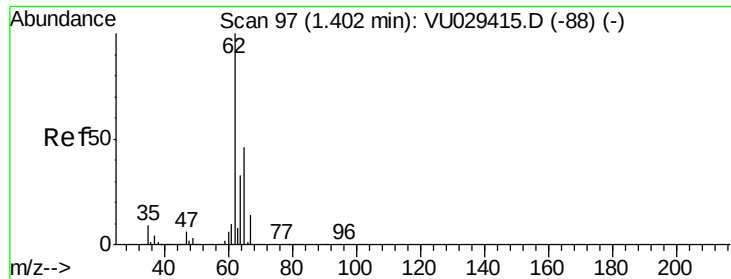
52 28.9 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.568 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

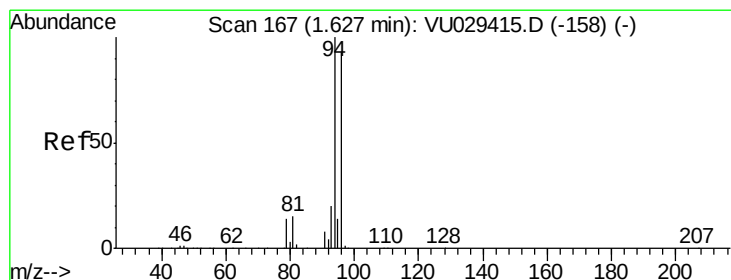
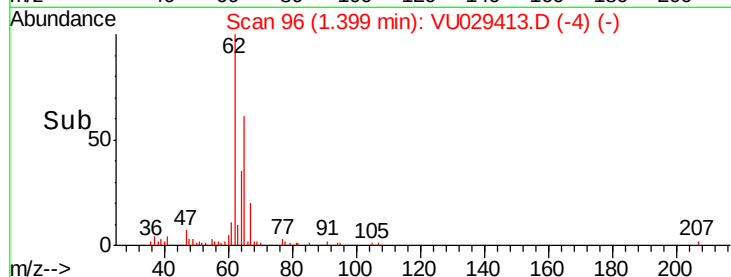
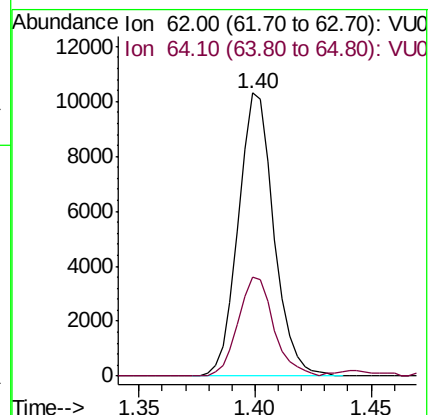
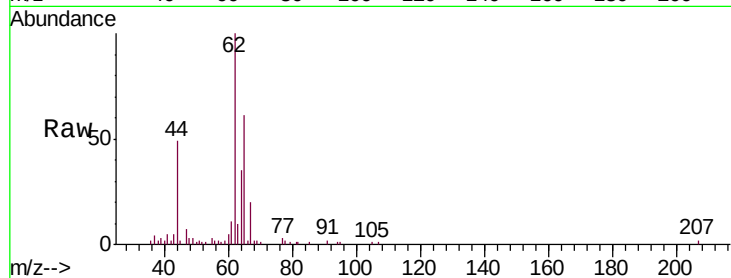
VSTD0.545

Tgt Ion: 62 Resp: 10970

Ion Ratio Lower Upper

62 100

64 34.8 23.5 43.7



#6

Bromomethane

Concen: 0.425 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU029413.D

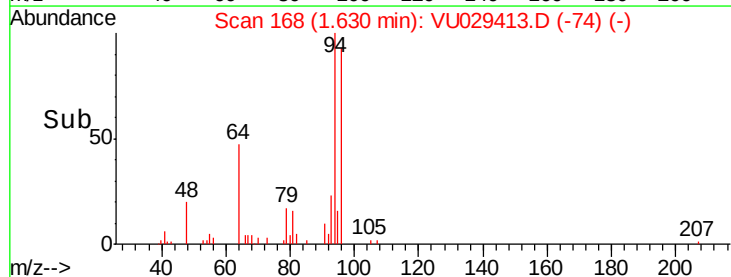
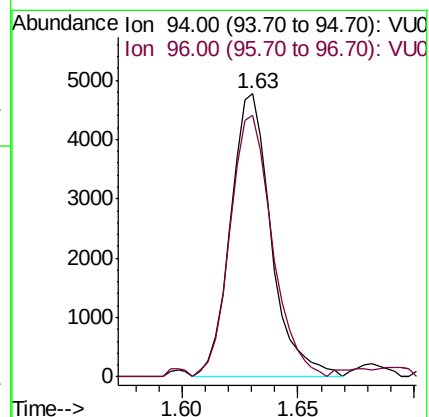
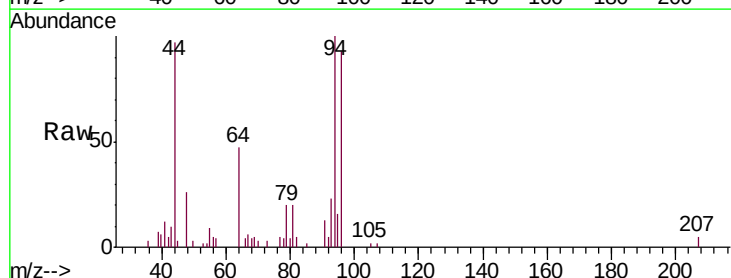
Acq: 12 Feb 2019 12:11

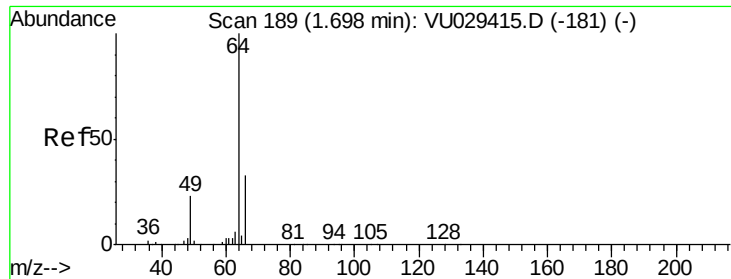
Tgt Ion: 94 Resp: 5790

Ion Ratio Lower Upper

94 100

96 92.6 65.2 121.0





#8

Chloroethane

Concen: 0.856 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

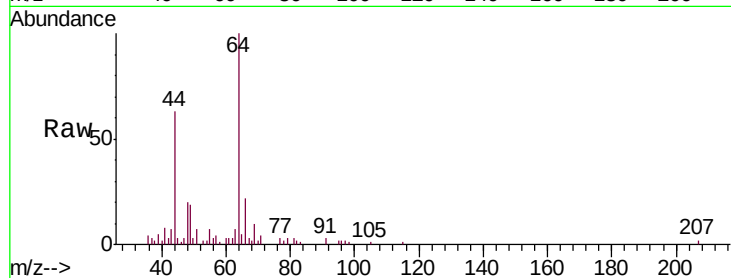
VSTD0.545

Tgt Ion: 64 Resp: 10455

Ion Ratio Lower Upper

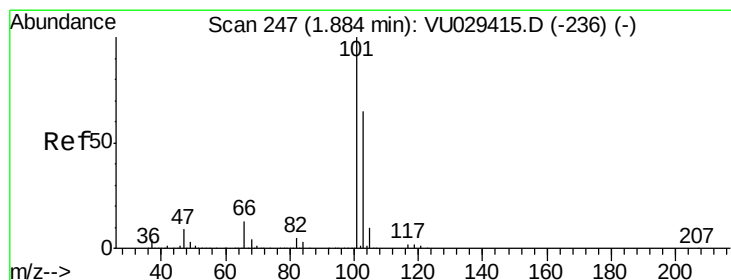
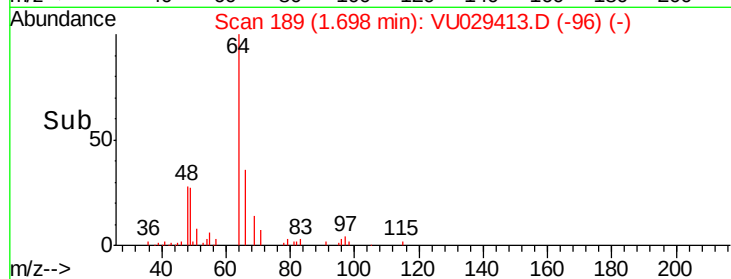
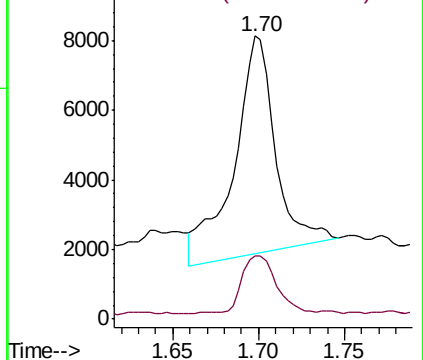
64 100

66 22.3 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 0.562 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU029413.D

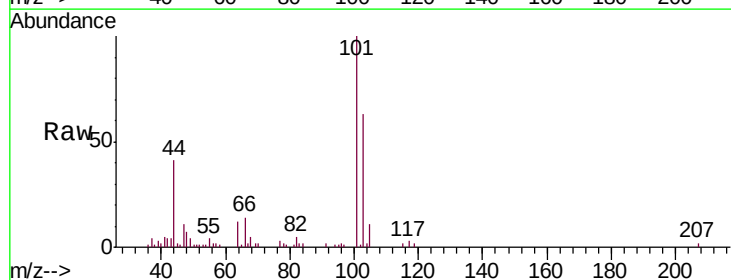
Acq: 12 Feb 2019 12:11

Tgt Ion: 101 Resp: 16673

Ion Ratio Lower Upper

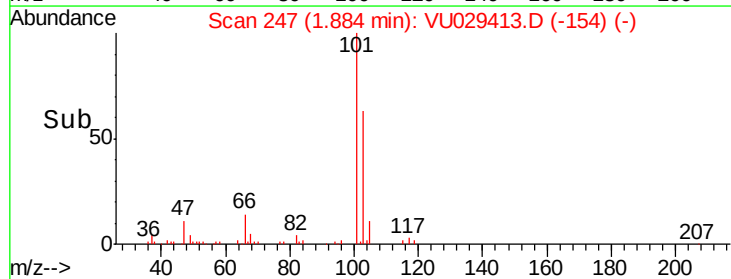
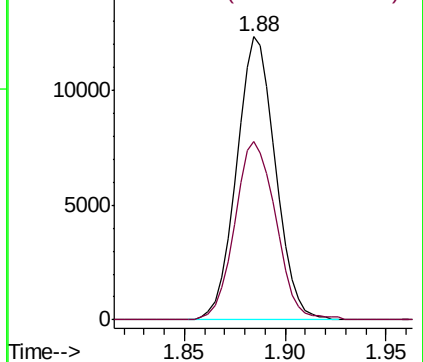
101 100

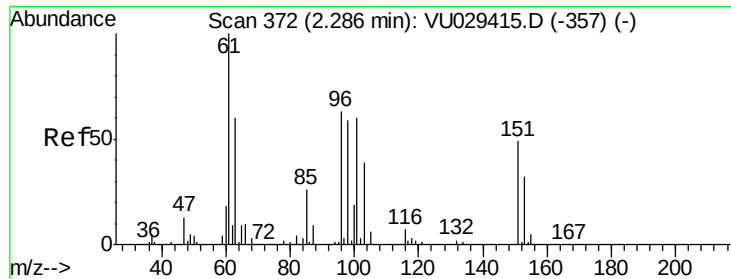
103 66.5 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.547 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

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ClientSampleId :

VSTD0.545

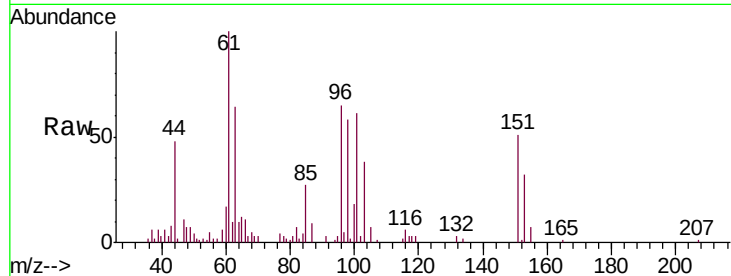
Tgt Ion: 101 Resp: 9662

Ion Ratio Lower Upper

101 100

85 45.0 35.1 52.7

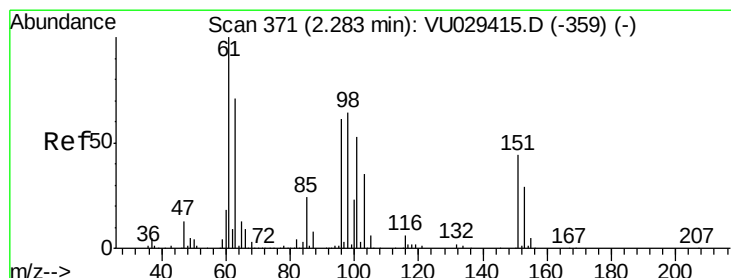
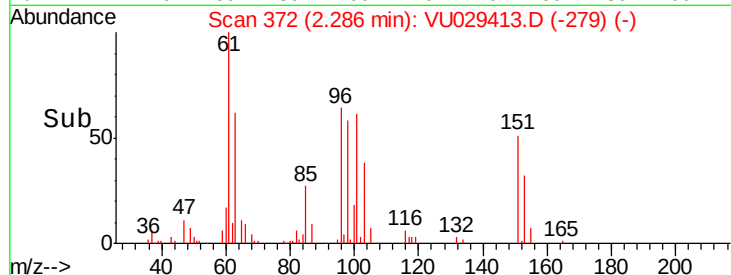
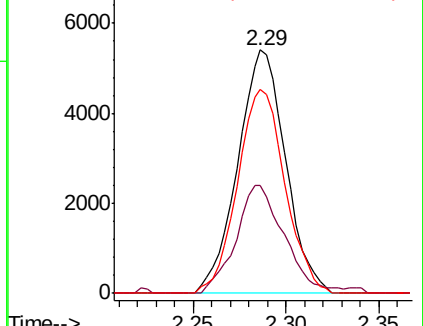
151 83.3 67.0 100.6



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: 0.571 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

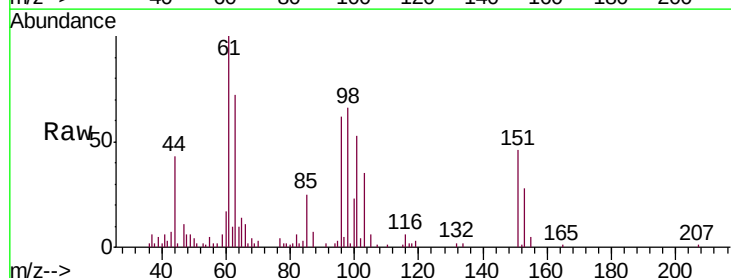
Tgt Ion: 96 Resp: 9494

Ion Ratio Lower Upper

96 100

61 161.8 115.1 213.7

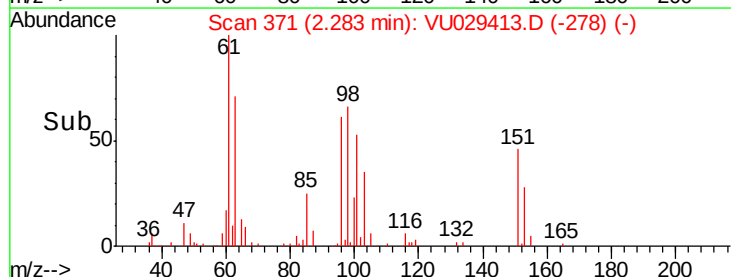
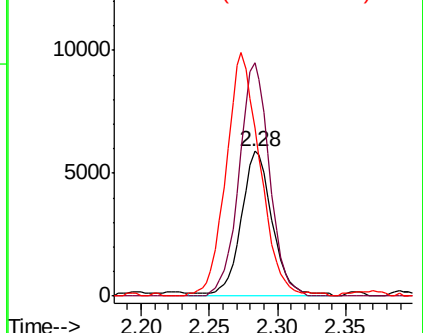
63 116.2 83.5 155.1

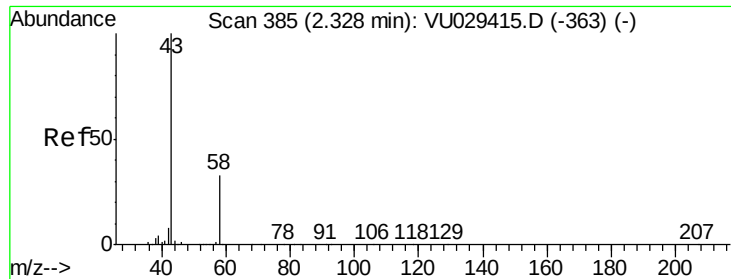


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.015 ug/L

RT: 2.35 min Scan# 393

Delta R.T. 0.03 min

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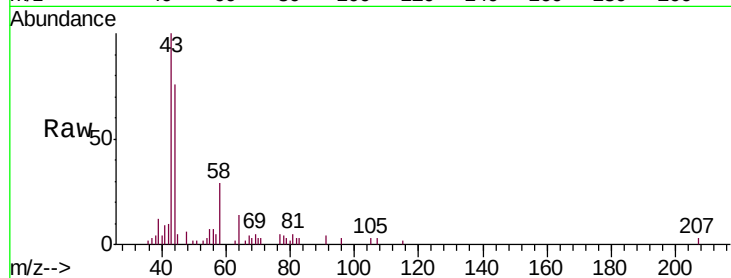
VSTD0.545

Tgt Ion: 43 Resp: 14746

Ion Ratio Lower Upper

43 100

58 35.1 0.0 65.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.35

6000

5000

4000

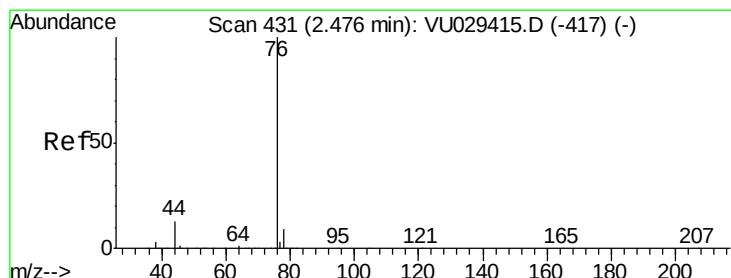
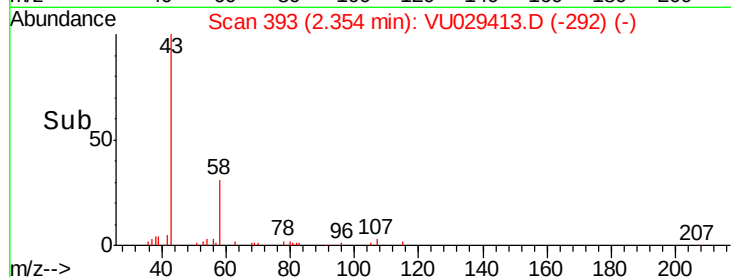
3000

2000

1000

0

Time--> 2.25 2.30 2.35 2.40 2.45



#14

Carbon disulfide

Concen: 0.535 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029413.D

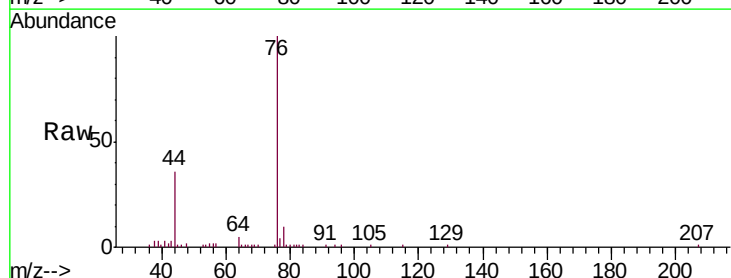
Acq: 12 Feb 2019 12:11

Tgt Ion: 76 Resp: 29883

Ion Ratio Lower Upper

76 100

78 10.2 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

20000

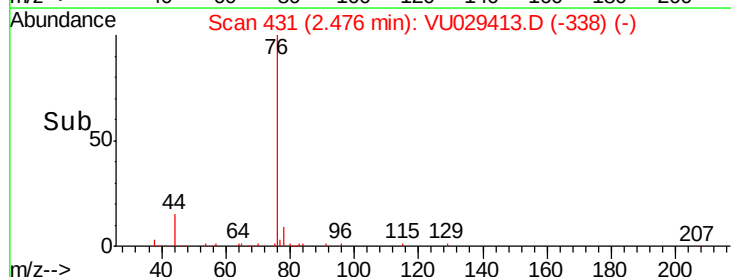
15000

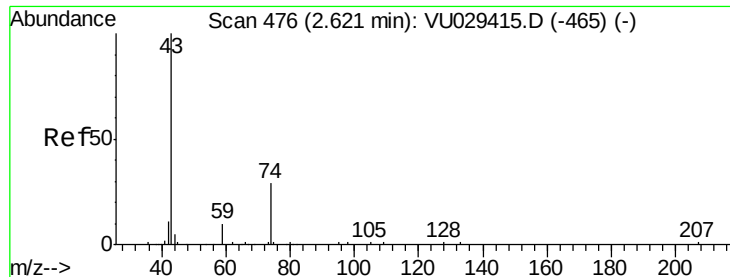
10000

5000

0

Time--> 2.40 2.45 2.50 2.55





#15

Methyl Acetate

Concen: 0.502 ug/L

RT: 2.63 min Scan# 478

Delta R.T. 0.01 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampled :

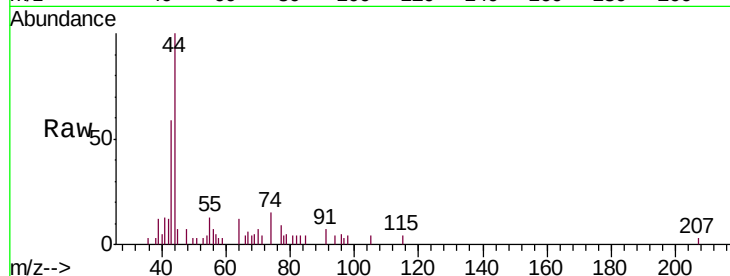
VSTD0.545

Tgt Ion: 43 Resp: 3371

Ion Ratio Lower Upper

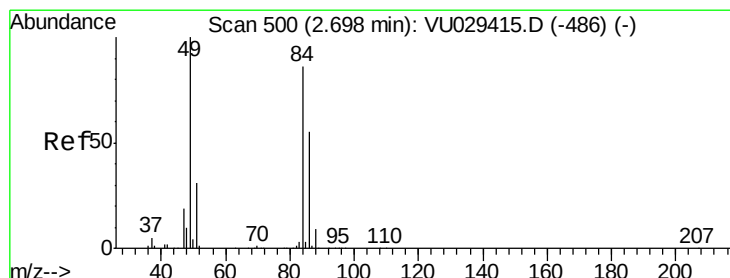
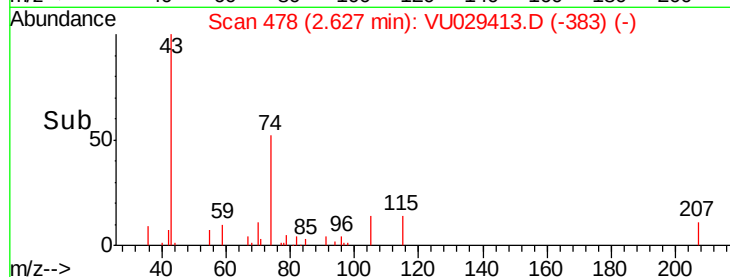
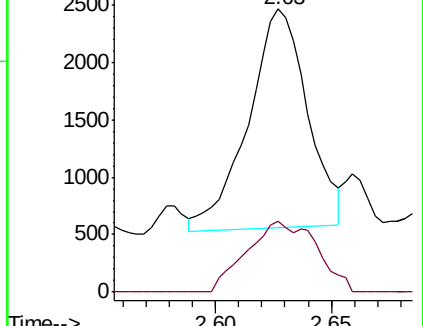
43 100

74 38.3 22.3 33.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.683 ug/L

RT: 2.70 min Scan# 501

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

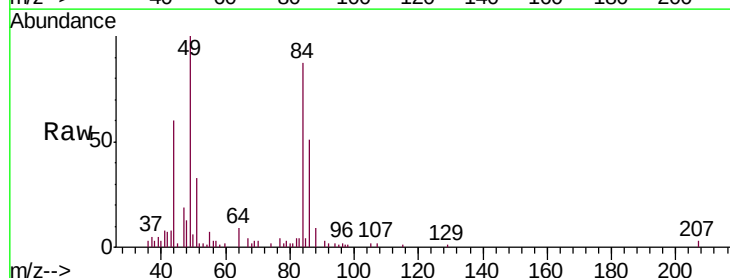
Tgt Ion: 84 Resp: 12499

Ion Ratio Lower Upper

84 100

86 58.6 45.1 83.9

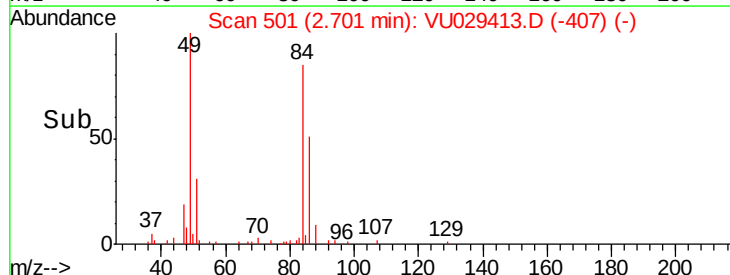
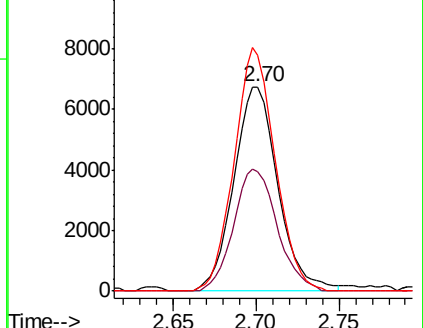
49 115.6 81.8 151.8

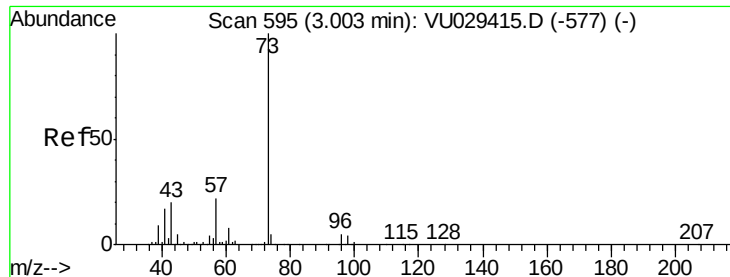


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

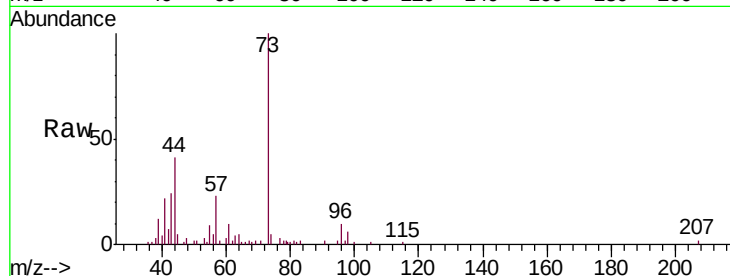




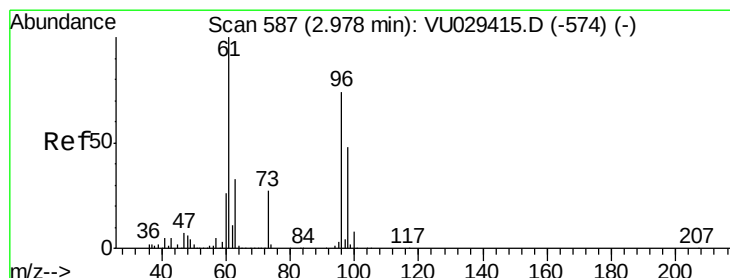
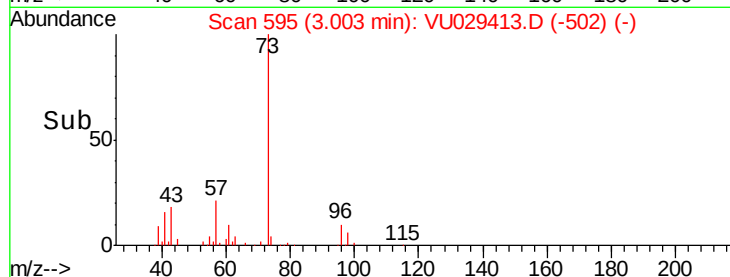
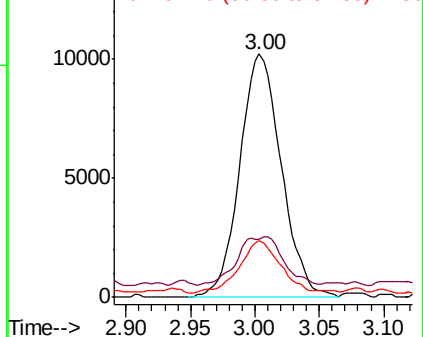
#17
Methyl tert-butyl Ether
Concen: 0.549 ug/L
RT: 3.00 min Scan# 595
Delta R.T. -0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.545

Tgt Ion	Ratio	Lower	Upper
73	100		
43	9.7	16.0	24.0#
57	20.8	16.9	25.3

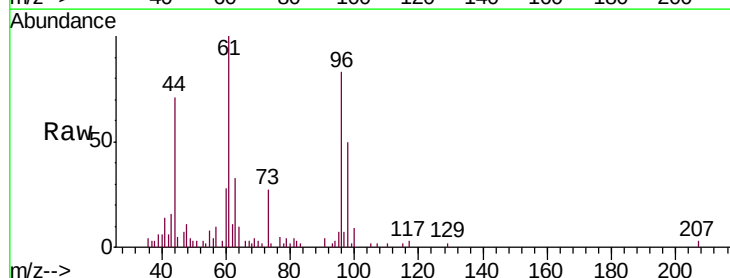


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

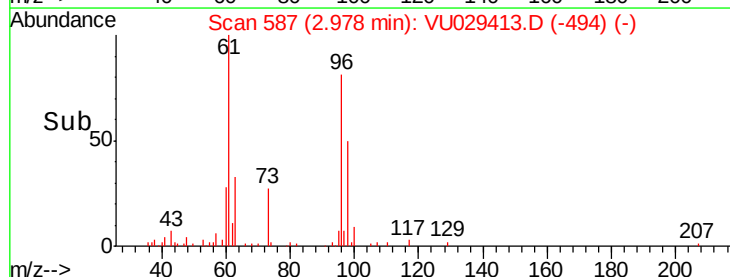
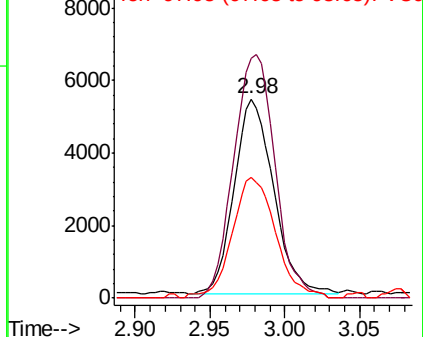


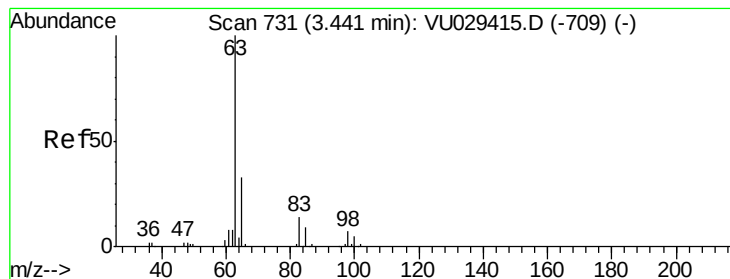
#18
trans-1,2-Dichloroethene
Concen: 0.549 ug/L
RT: 2.98 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	120.6	95.4	177.2
98	60.8	45.8	85.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.644 ug/L

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.545

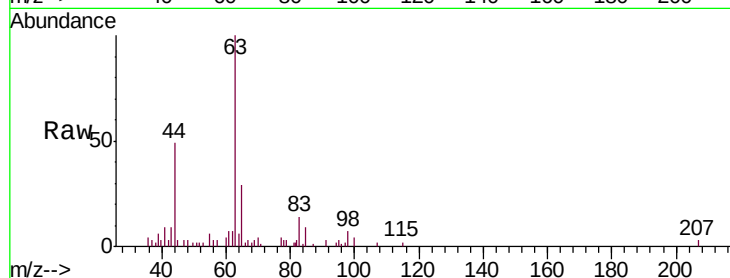
Tgt Ion: 63 Resp: 16899

Ion Ratio Lower Upper

63 100

65 28.8 23.5 43.7

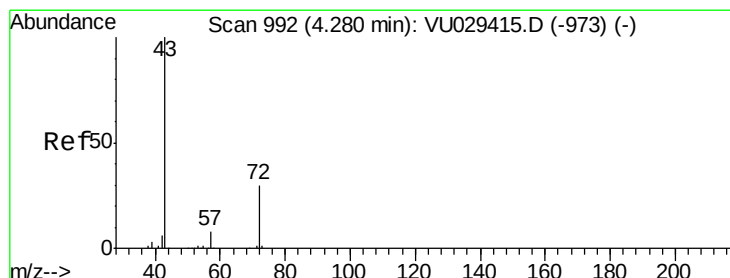
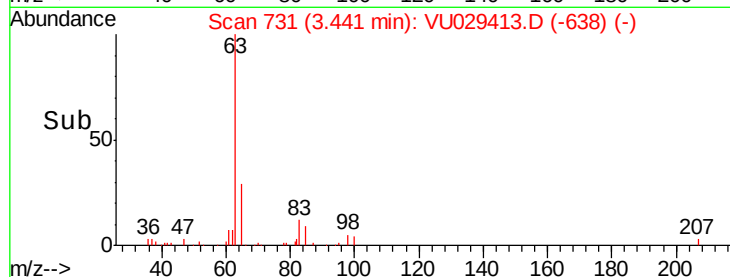
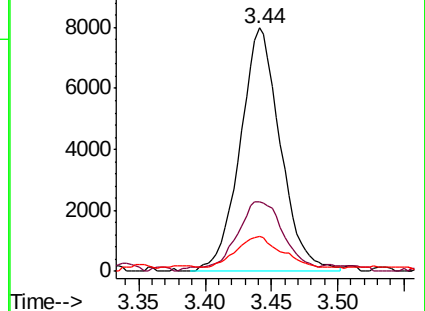
83 14.3 10.3 19.1



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



#21

2-Butanone

Concen: 5.500 ug/L

RT: 4.30 min Scan# 999

Delta R.T. 0.02 min

Lab File: VU029413.D

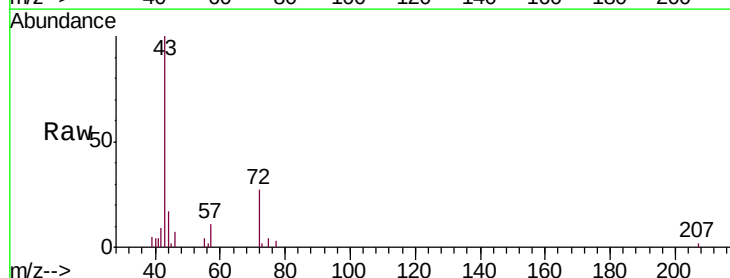
Acq: 12 Feb 2019 12:11

Tgt Ion: 43 Resp: 16575

Ion Ratio Lower Upper

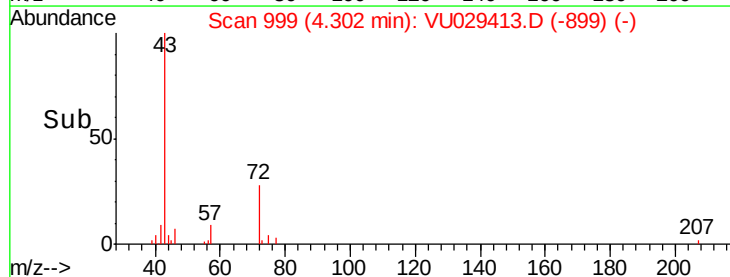
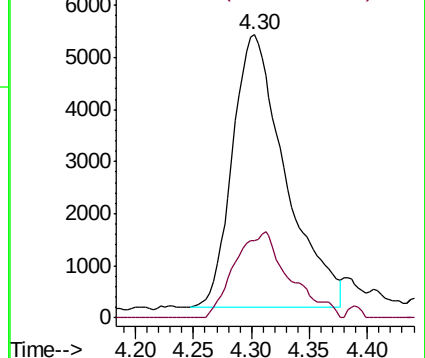
43 100

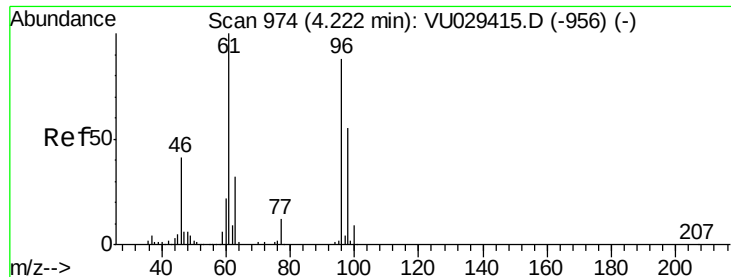
72 33.1 14.7 44.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0



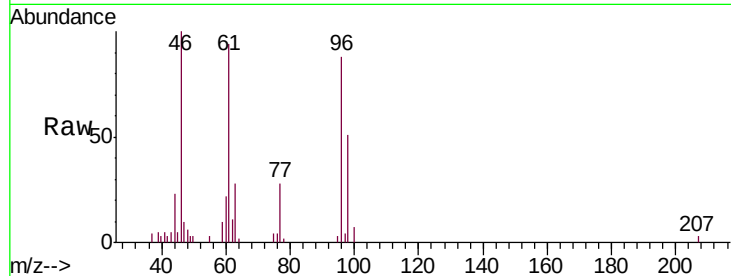


#22

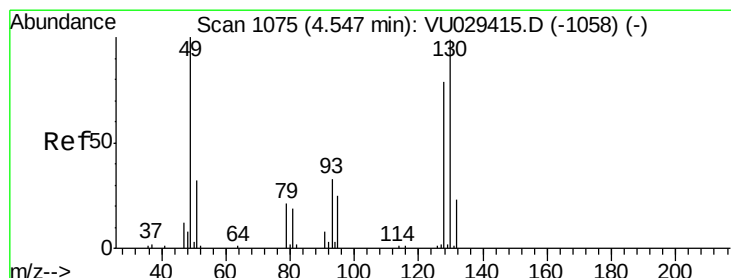
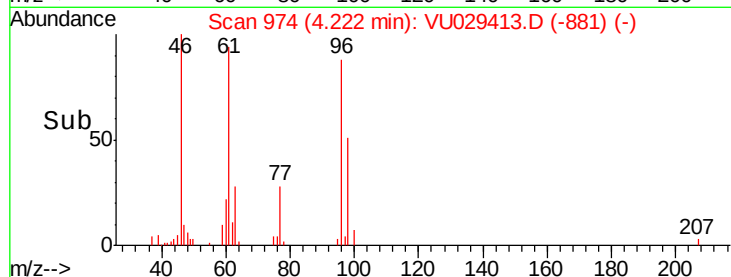
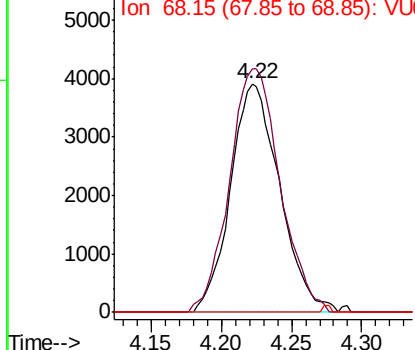
cis-1,2-Dichloroethene
Concen: 0.588 ug/L
RT: 4.22 min Scan# 974
Delta R.T. -0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.545

Tgt Ion: 96 Resp: 9538
Ion Ratio Lower Upper
96 100
61 106.6 79.9 148.5
68 0.0 0.0 0.0



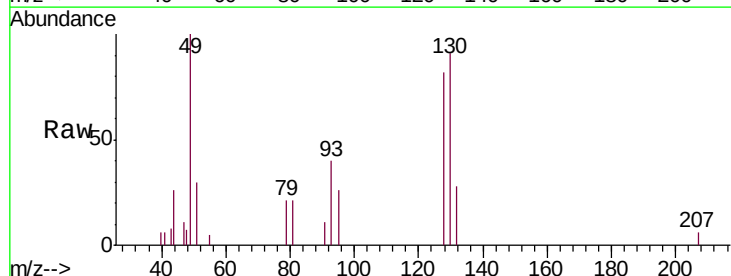
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



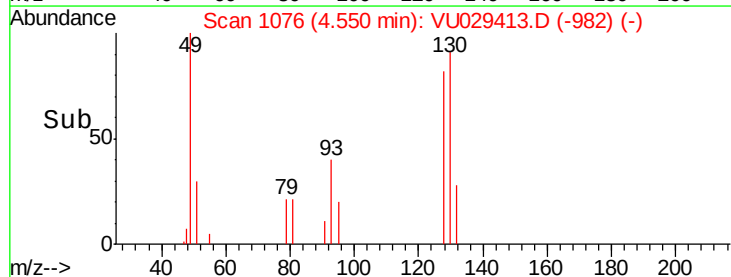
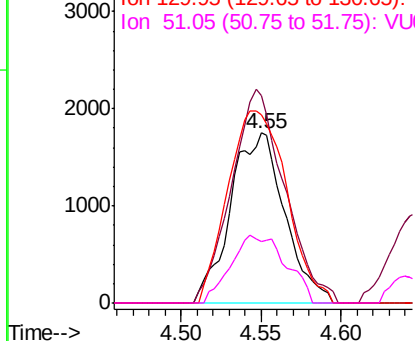
#23

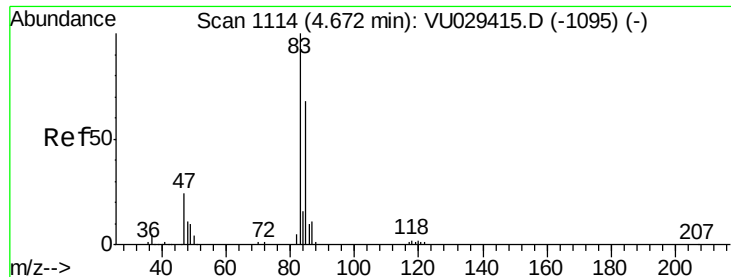
Bromochloromethane
Concen: 0.552 ug/L
RT: 4.55 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Tgt Ion: 128 Resp: 4064
Ion Ratio Lower Upper
128 100
49 121.8 89.0 165.4
130 111.1 88.0 163.4
51 36.5 32.1 48.1



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

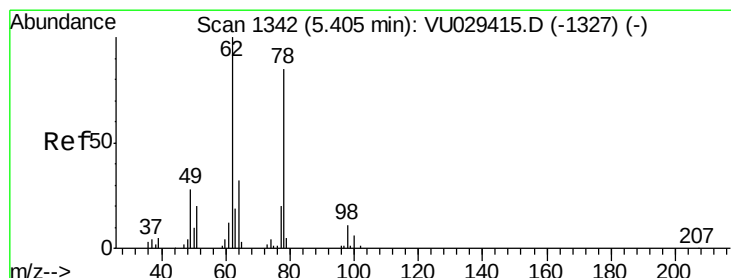
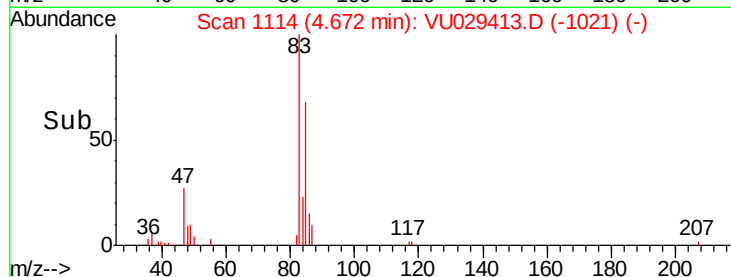
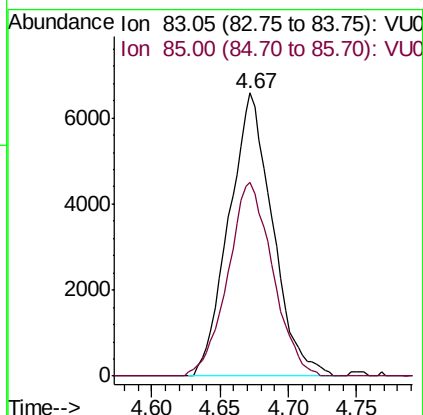
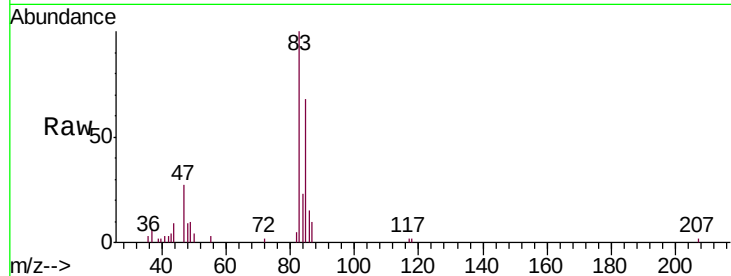




#25
Chloroform
Concen: 0.554 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

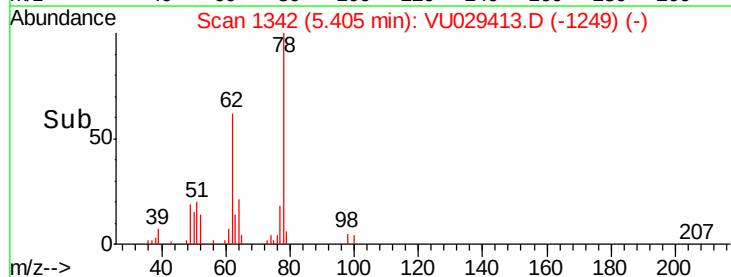
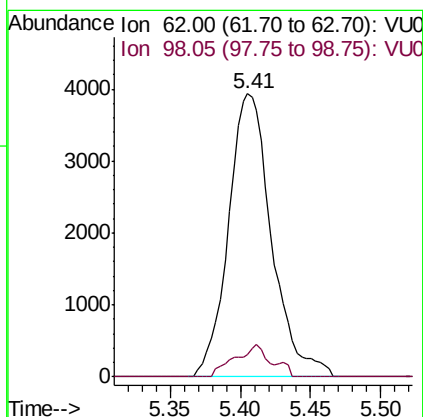
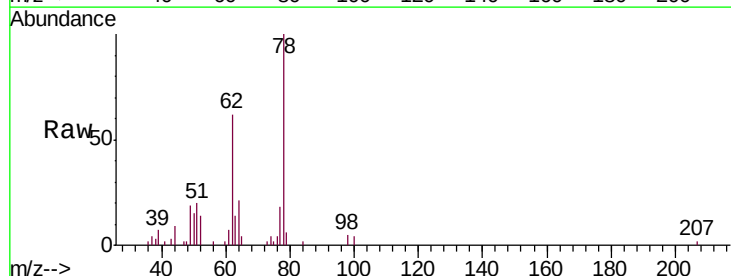
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.545

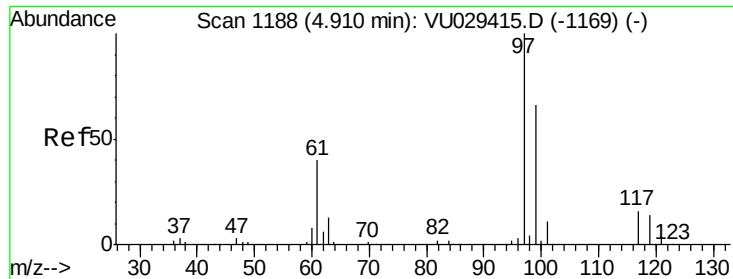
Tgt Ion: 83 Resp: 14595
Ion Ratio Lower Upper
83 100
85 68.4 47.8 88.8



#27
1,2-Dichloroethane
Concen: 0.547 ug/L
RT: 5.41 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Tgt Ion: 62 Resp: 8416
Ion Ratio Lower Upper
62 100
98 7.7 8.4 12.6#

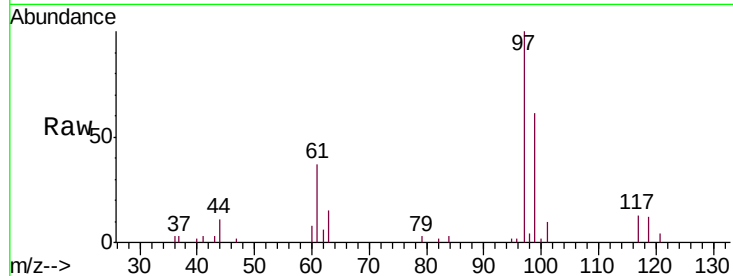




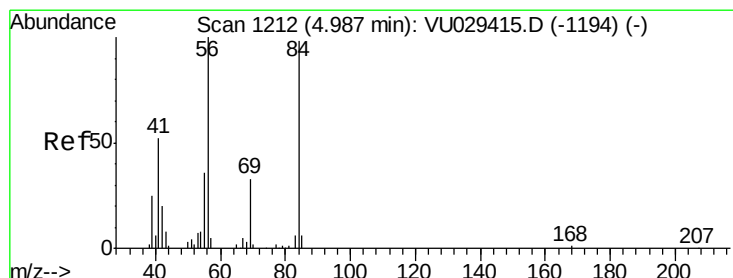
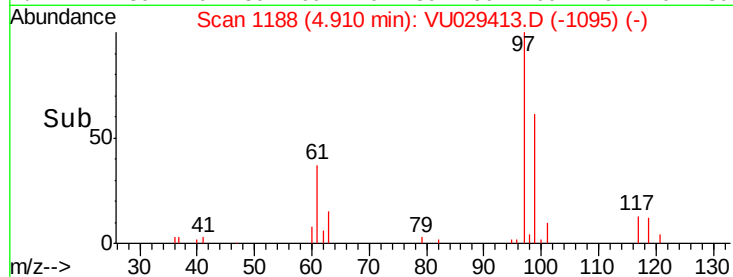
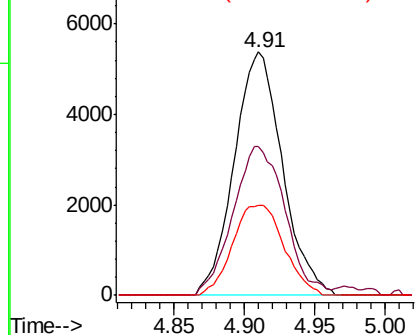
#29
 1,1,1-Trichloroethane
 Concen: 0.557 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.545

Tgt Ion: 97 Resp: 12868
 Ion Ratio Lower Upper
 97 100
 99 65.9 52.2 78.2
 61 39.4 32.0 48.0

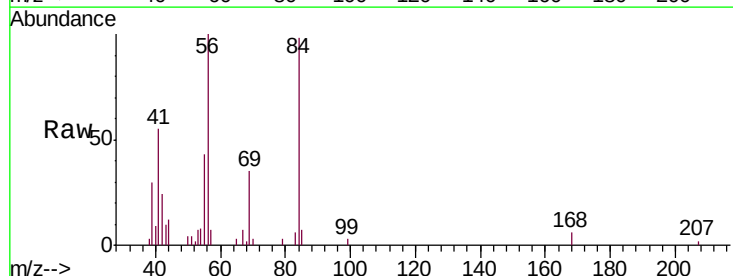


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

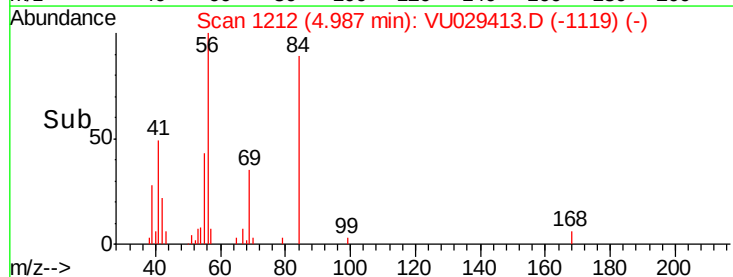
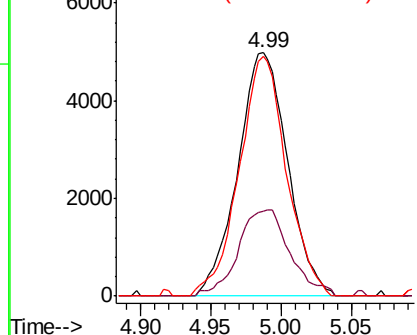


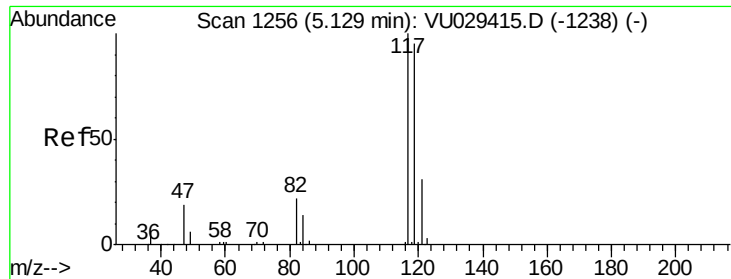
#30
 Cyclohexane
 Concen: 0.557 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. 0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Tgt Ion: 56 Resp: 12288
 Ion Ratio Lower Upper
 56 100
 69 36.7 25.8 38.6
 84 93.9 75.0 112.6



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0

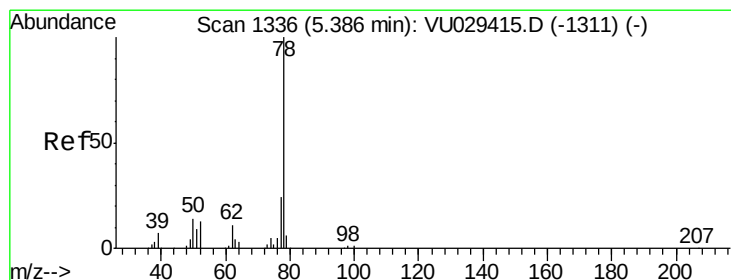
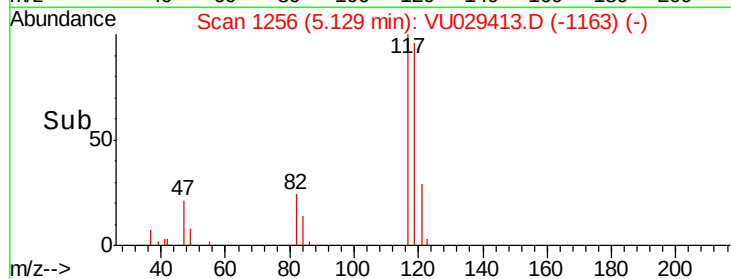
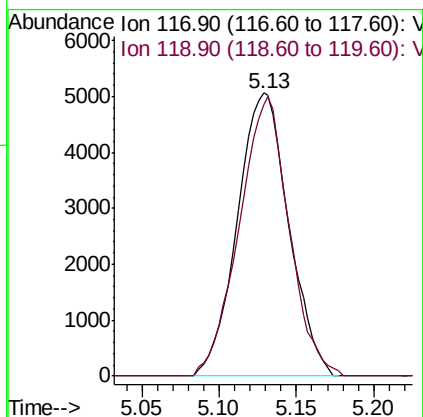
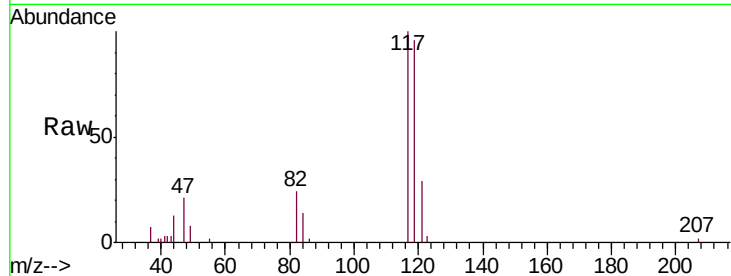




#31
Carbon tetrachloride
Concen: 0.554 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

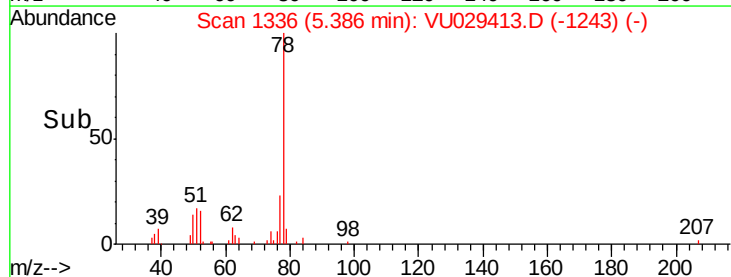
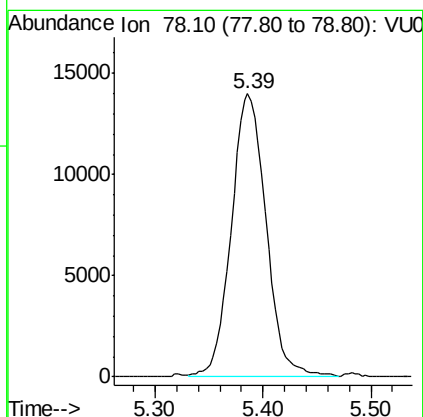
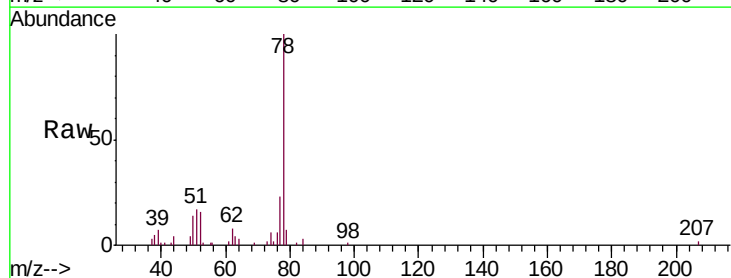
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.545

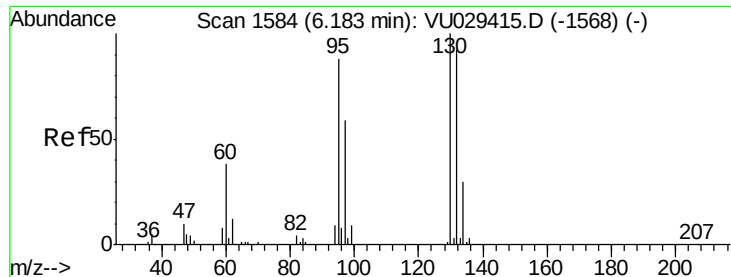
Tgt Ion:117 Resp: 11715
Ion Ratio Lower Upper
117 100
119 95.5 78.1 117.1



#33
Benzene
Concen: 0.587 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Tgt Ion: 78 Resp: 31505





#34

Trichloroethene

Concen: 0.575 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.545

Tgt Ion: 95 Resp: 8788

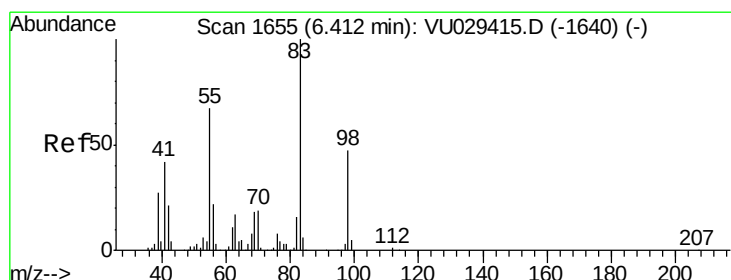
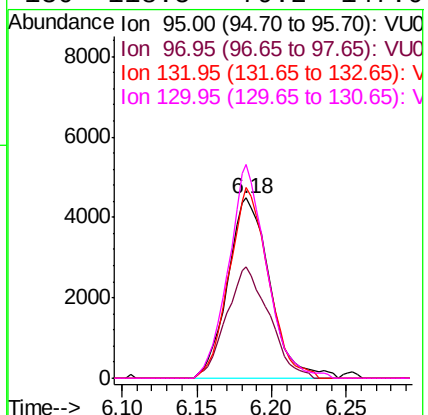
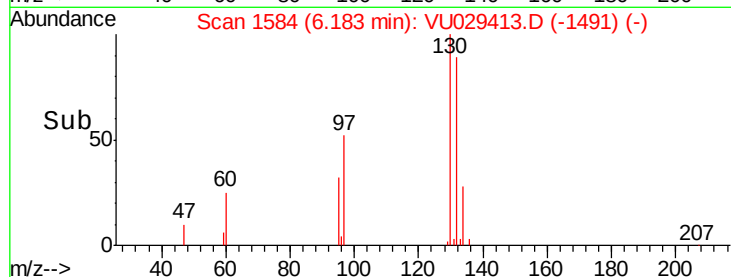
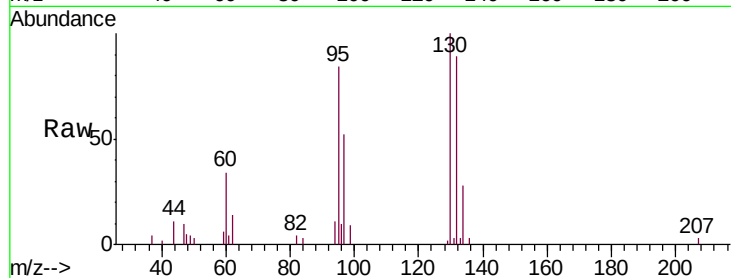
Ion Ratio Lower Upper

95 100

97 62.0 46.3 86.1

132 105.8 72.9 135.3

130 118.5 79.2 147.0



#35

Methylcyclohexane

Concen: 0.570 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

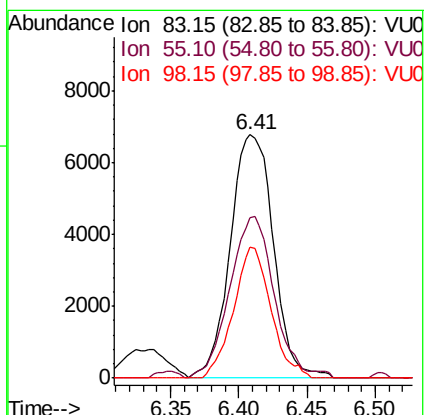
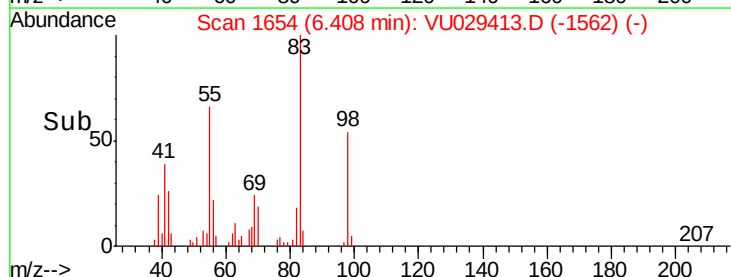
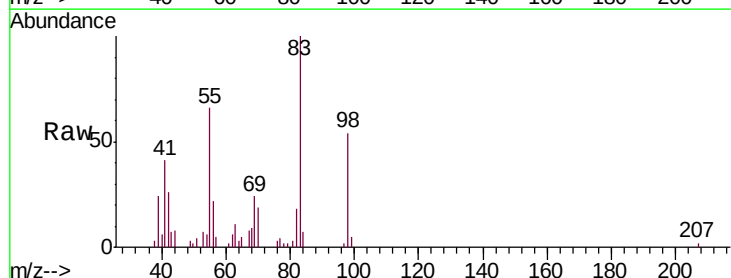
Tgt Ion: 83 Resp: 14911

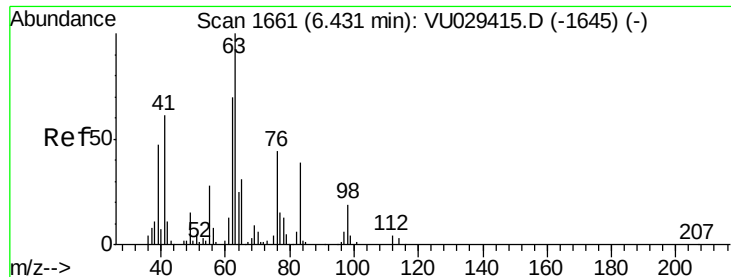
Ion Ratio Lower Upper

83 100

55 68.5 55.9 83.9

98 46.5 38.6 57.8

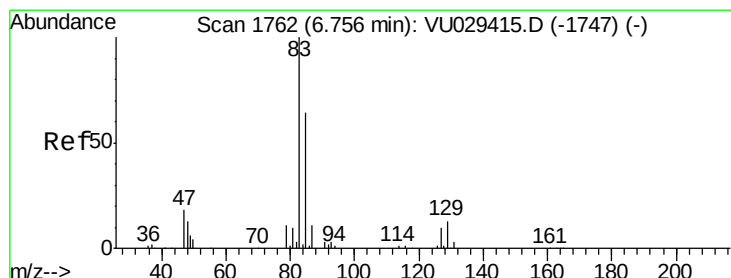
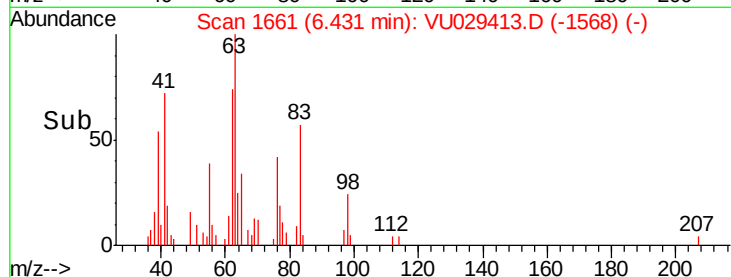
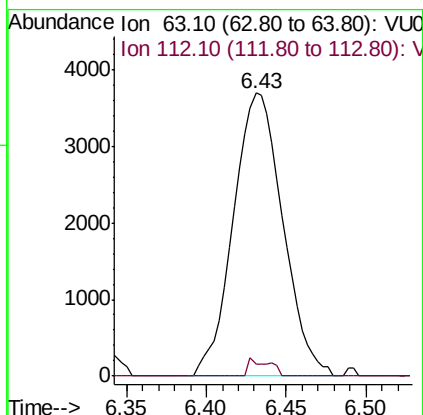
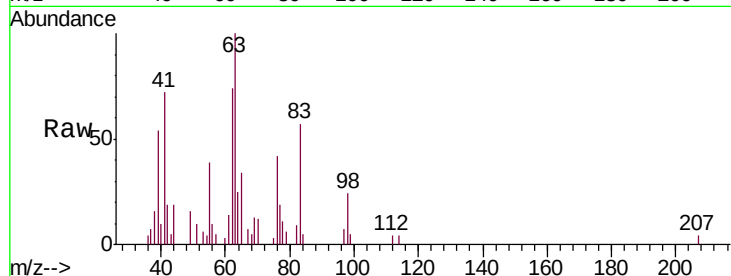




#37
 1,2-Dichloropropane
 Concen: 0.572 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. -0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

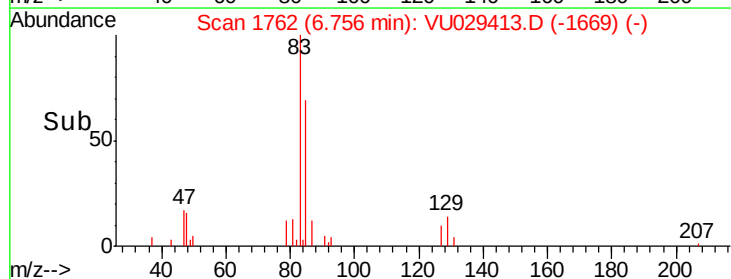
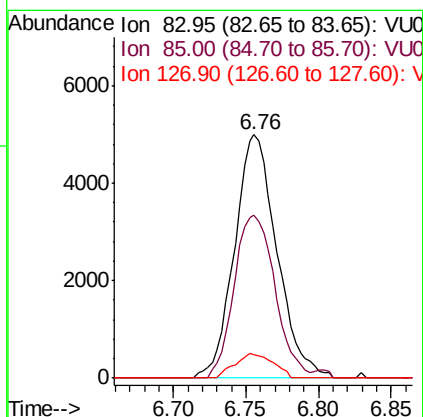
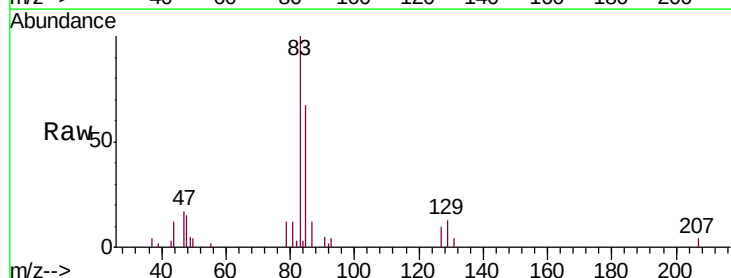
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.545

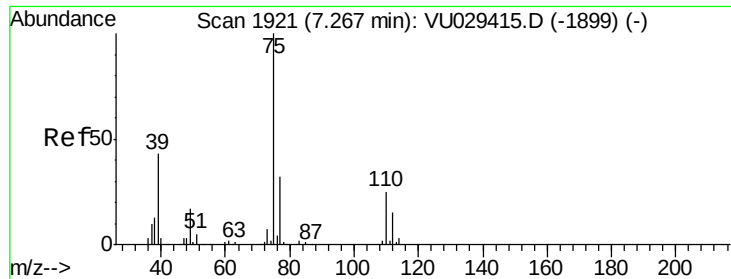
Tgt Ion: 63 Resp: 7808
 Ion Ratio Lower Upper
 63 100
 112 1.4 3.5 5.3#



#38
 Bromodichloromethane
 Concen: 0.547 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Tgt Ion: 83 Resp: 10132
 Ion Ratio Lower Upper
 83 100
 85 66.8 45.1 83.7
 127 9.7 7.8 11.8

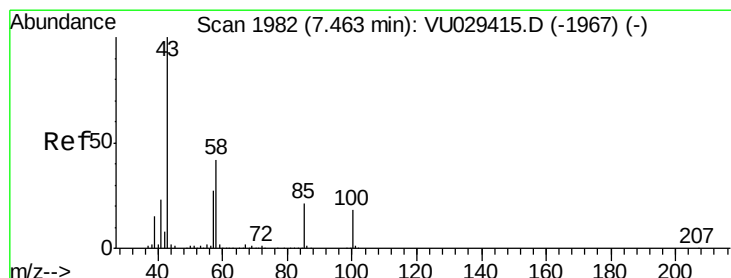
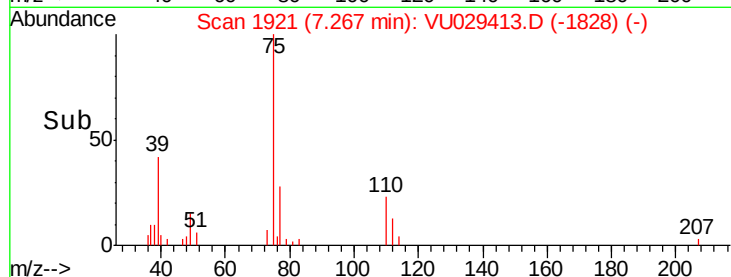
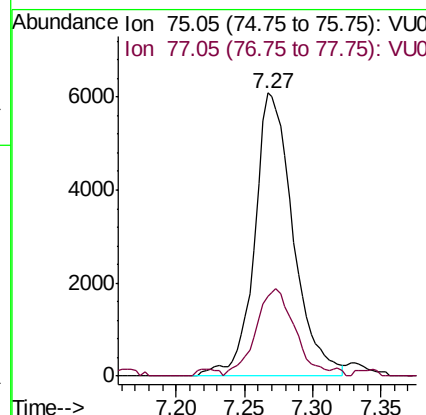
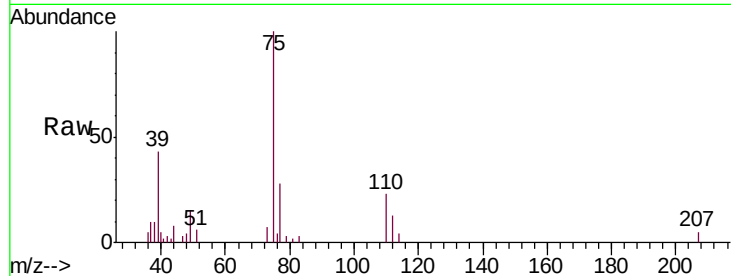




#39
 cis-1,3-Dichloropropene
 Concen: 0.545 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

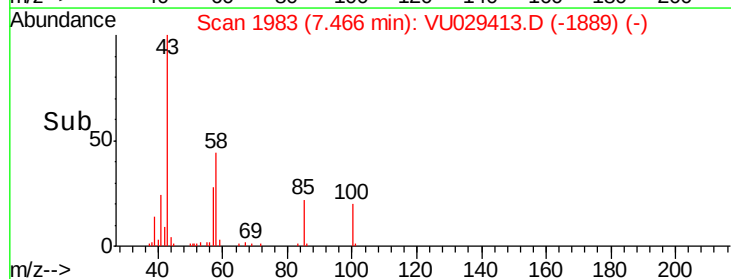
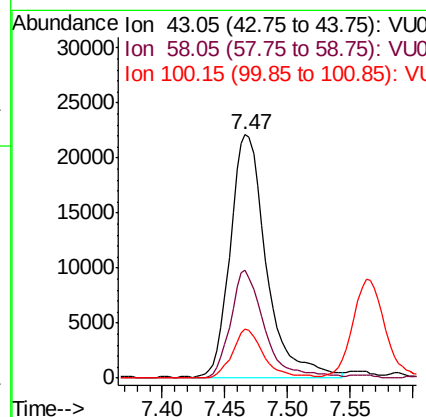
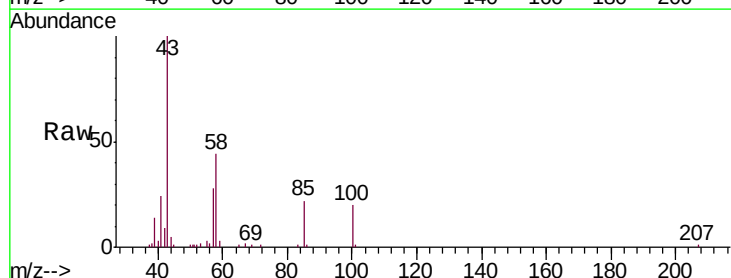
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.545

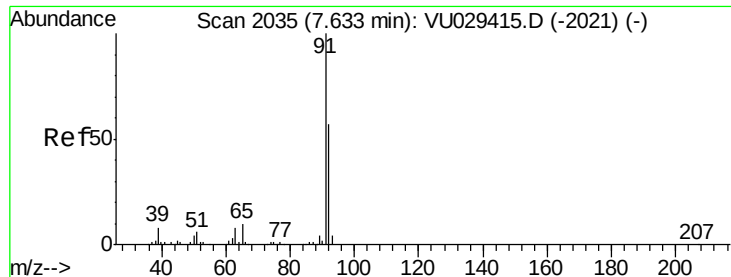
Tgt Ion: 75 Resp: 11945
 Ion Ratio Lower Upper
 75 100
 77 28.0 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 5.780 ug/L
 RT: 7.47 min Scan# 1983
 Delta R.T. 0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Tgt Ion: 43 Resp: 44387
 Ion Ratio Lower Upper
 43 100
 58 41.3 33.4 50.2
 100 17.0 14.4 21.6





#42

Toluene

Concen: 0.555 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

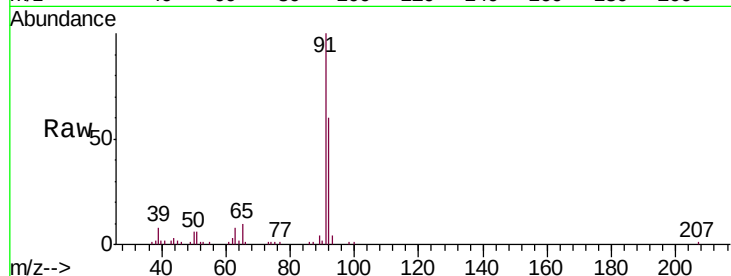
VSTD0.545

Tgt Ion: 91 Resp: 34016

Ion Ratio Lower Upper

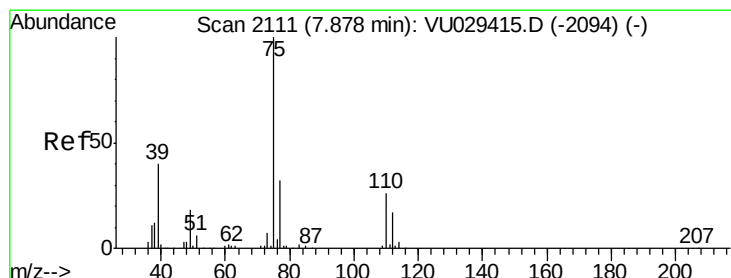
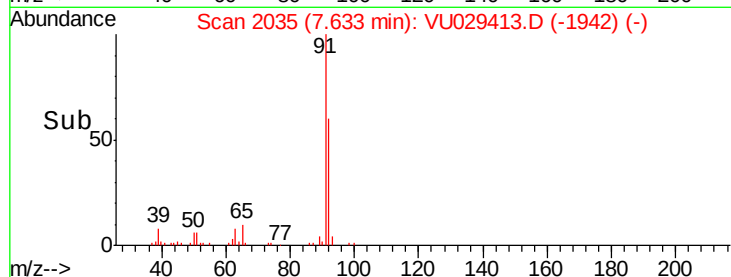
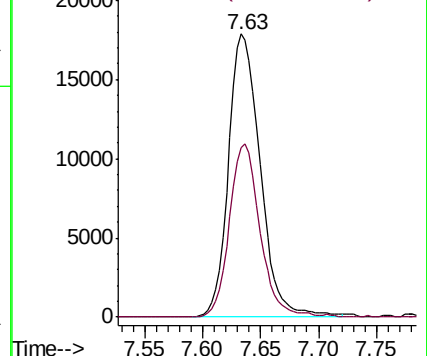
91 100

92 60.0 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.542 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU029413.D

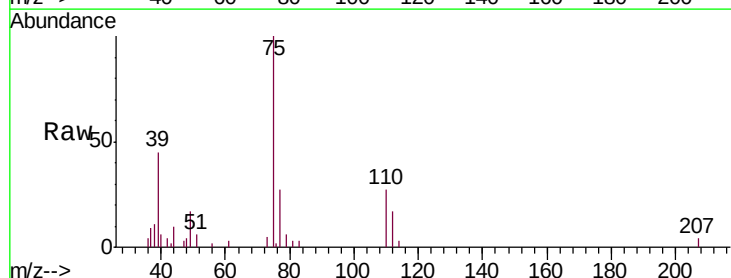
Acq: 12 Feb 2019 12:11

Tgt Ion: 75 Resp: 9850

Ion Ratio Lower Upper

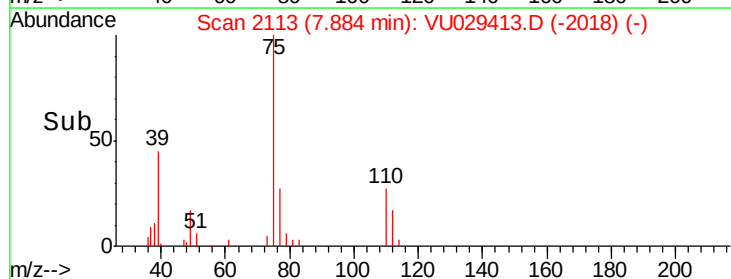
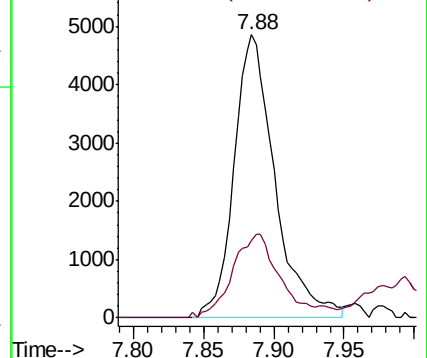
75 100

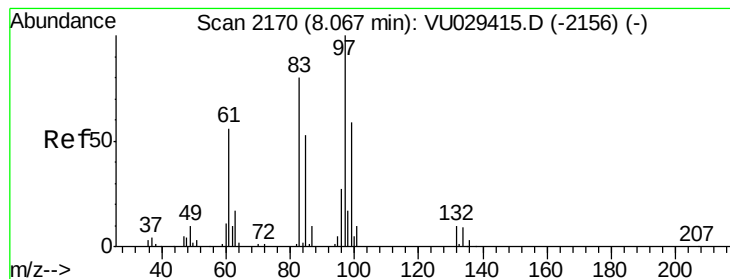
77 27.1 22.2 41.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 0.563 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.545

Tgt Ion: 97 Resp: 5961

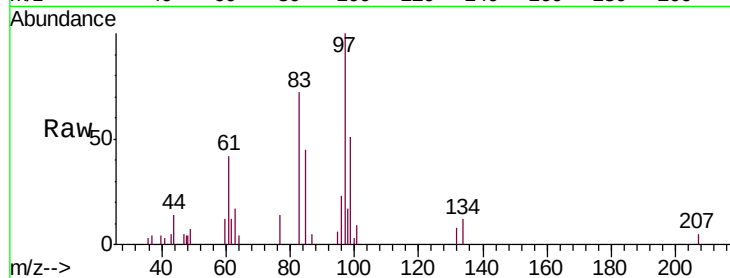
Ion Ratio Lower Upper

97 100

99 51.1 41.6 77.2

83 71.5 55.8 103.6

85 45.3 37.2 69.0

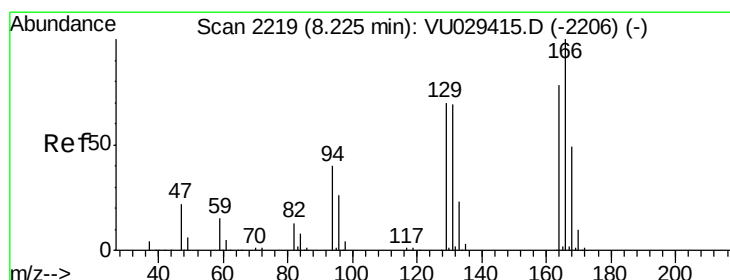
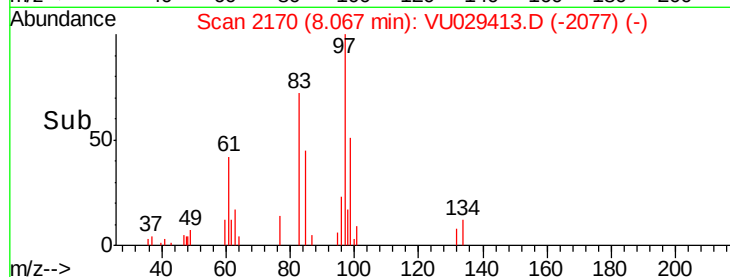
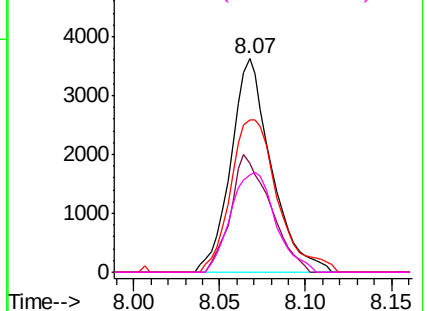


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.537 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Tgt Ion: 164 Resp: 7631

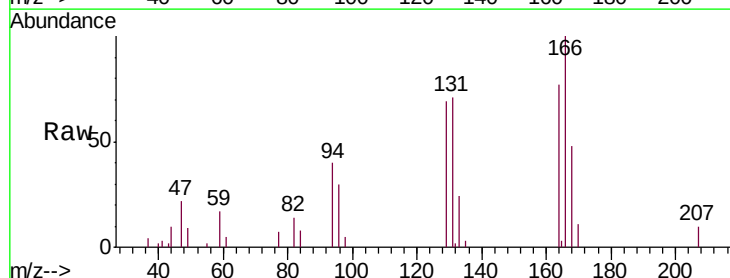
Ion Ratio Lower Upper

164 100

129 89.3 62.9 116.9

131 91.8 62.1 115.3

166 129.5 89.8 166.8

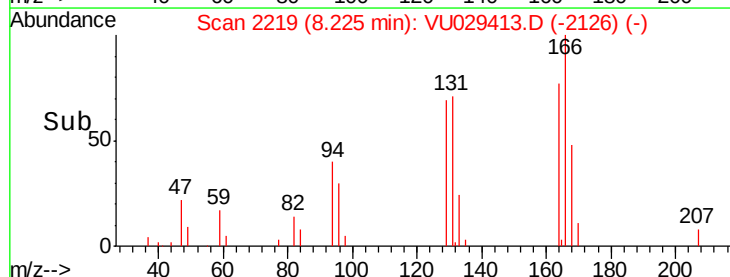
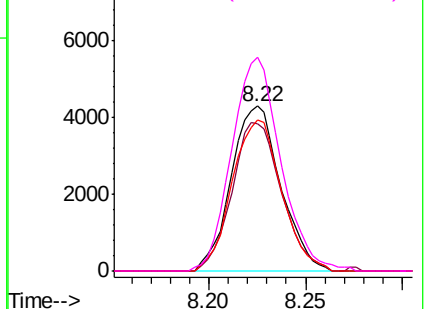


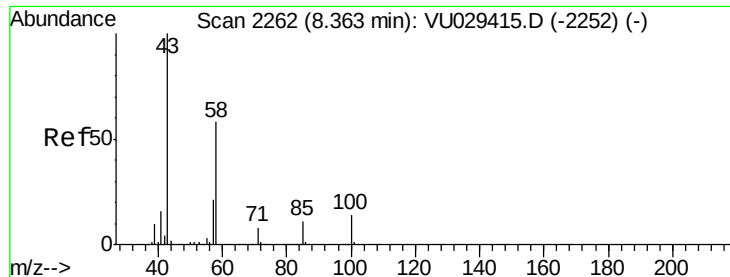
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

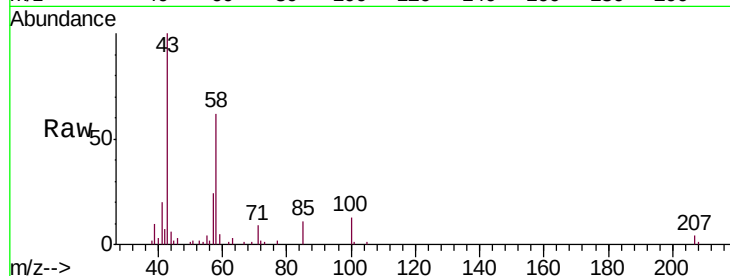




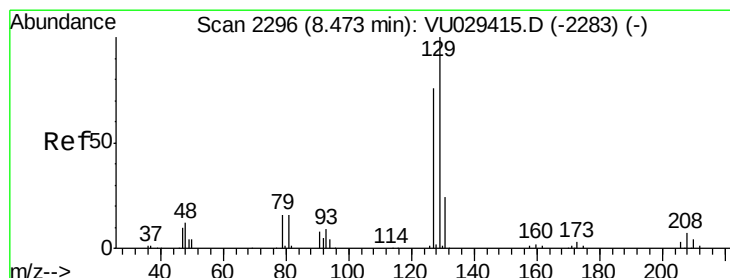
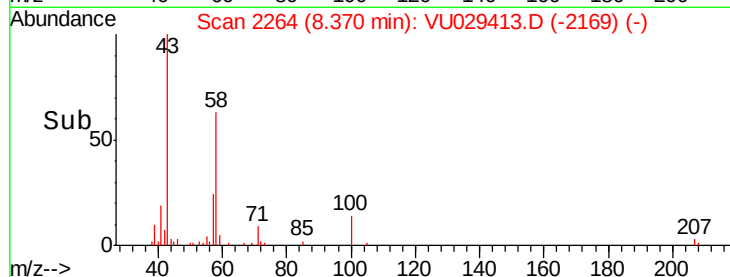
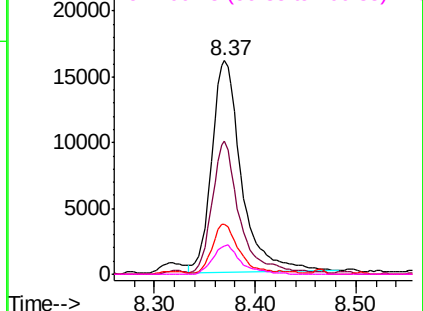
#48
2-Hexanone
Concen: 6.123 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.545

Tgt Ion:	43	Resp:	32799
Ion	Ratio	Lower	Upper
43	100		
58	57.4	45.7	68.5
57	20.3	16.4	24.6
100	13.1	11.1	16.7

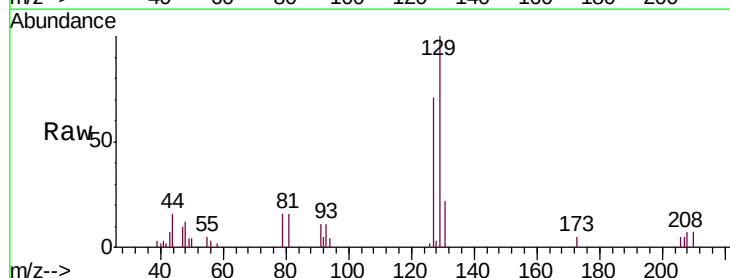


Abundance Ion 43.05 (42.75 to 43.75): VU029413.D (-2169) (-)
Ion 58.05 (57.75 to 58.75): VU029413.D (-2169) (-)
Ion 57.20 (56.90 to 57.90): VU029413.D (-2169) (-)
Ion 100.15 (99.85 to 100.85): VU029413.D (-2169) (-)

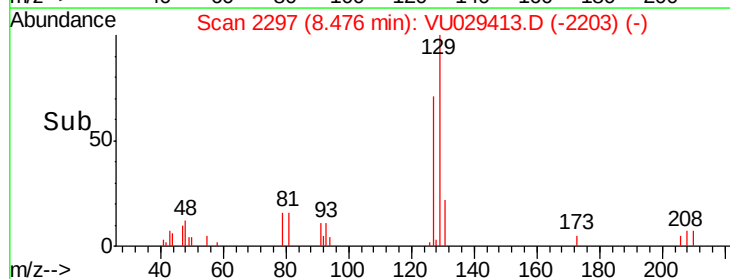
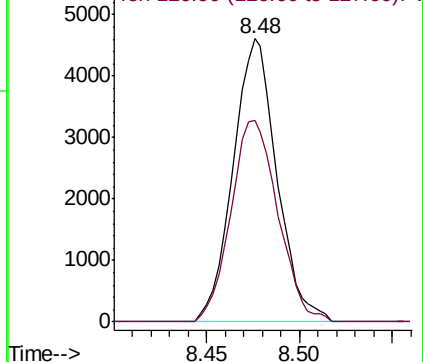


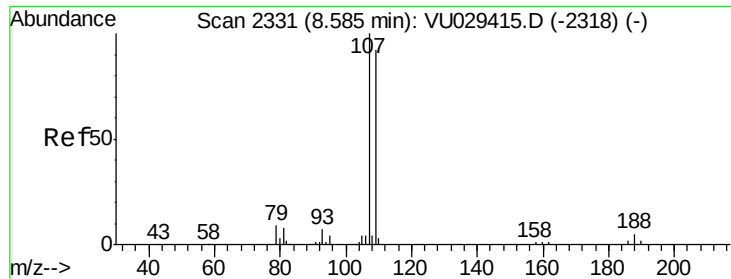
#49
Dibromochloromethane
Concen: 0.524 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Tgt Ion:	129	Resp:	7554
Ion	Ratio	Lower	Upper
129	100		
127	71.0	53.3	99.1



Abundance Ion 128.95 (128.65 to 129.65): VU029413.D (-2203) (-)
Ion 126.90 (126.60 to 127.60): VU029413.D (-2203) (-)

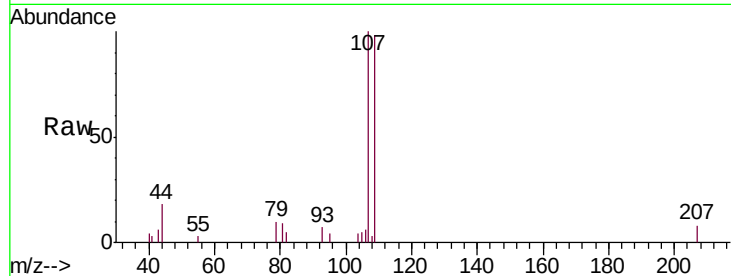




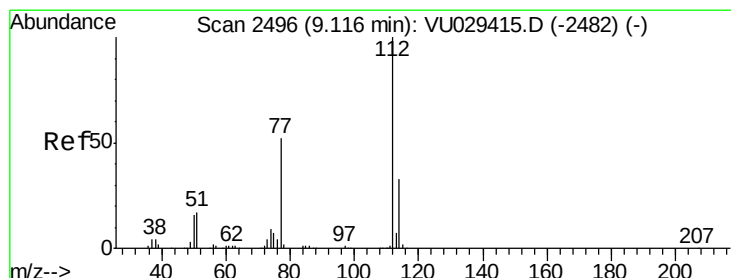
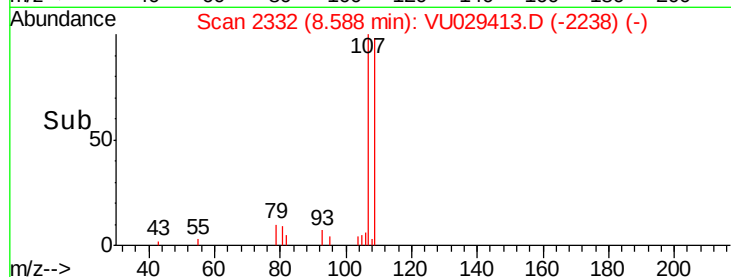
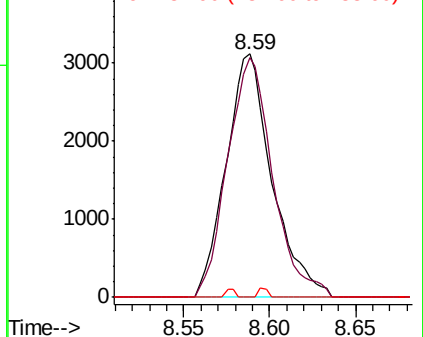
#50
1,2-Dibromoethane
Concen: 0.565 ug/L
RT: 8.59 min Scan# 2332
Delta R.T. 0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.545

Tgt Ion:107 Resp: 5810
Ion Ratio Lower Upper
107 100
109 98.3 64.1 119.1
188 0.0 3.7 5.5#

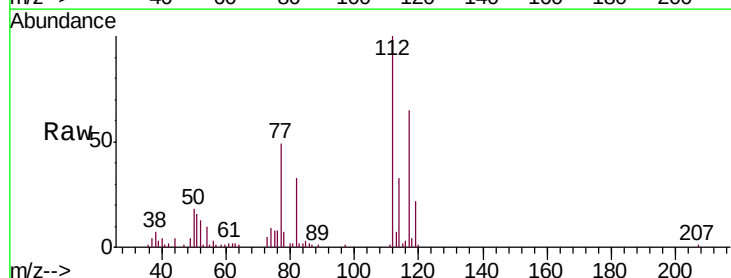


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

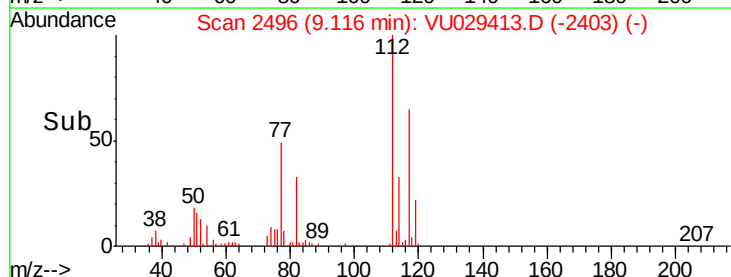
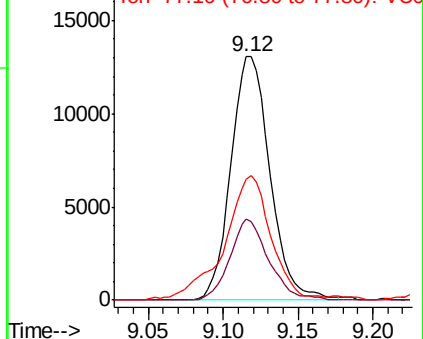


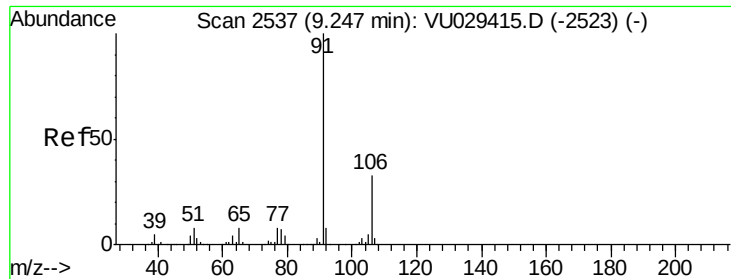
#51
Chlorobenzene
Concen: 0.564 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU029413.D
Acq: 12 Feb 2019 12:11

Tgt Ion:112 Resp: 23816
Ion Ratio Lower Upper
112 100
114 33.4 22.9 42.5
77 49.4 41.8 62.6



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: 0.549 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

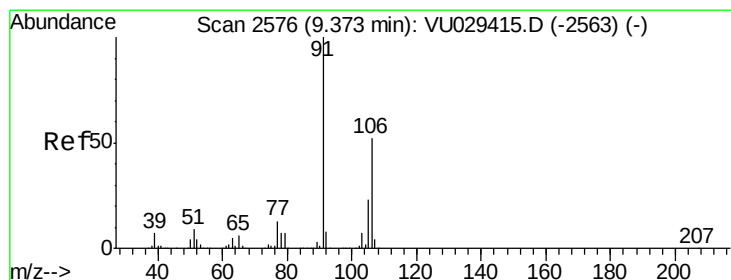
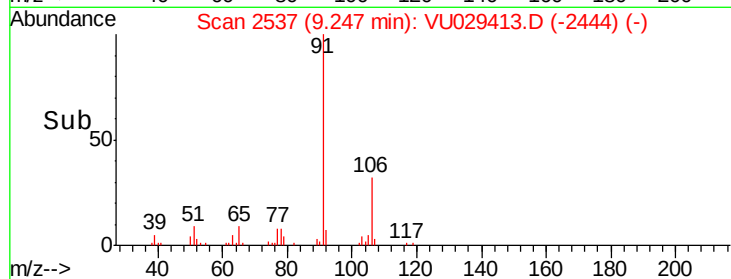
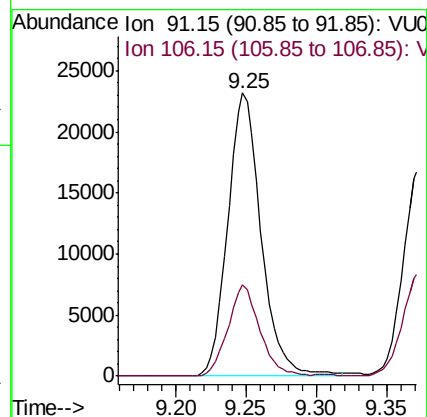
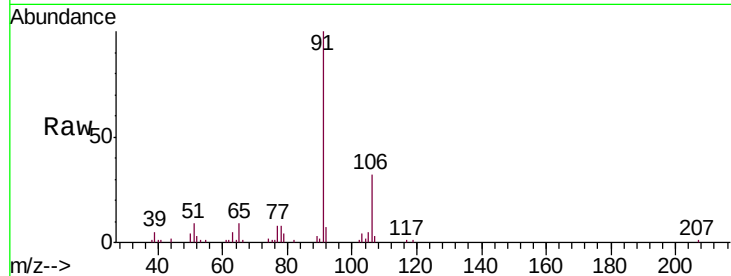
VSTD0.545

Tgt Ion: 91 Resp: 38215

Ion Ratio Lower Upper

91 100

106 32.2 22.8 42.4



#53

m,p-xylene

Concen: 0.551 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029413.D

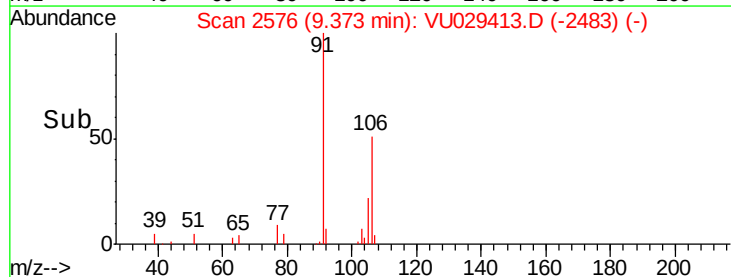
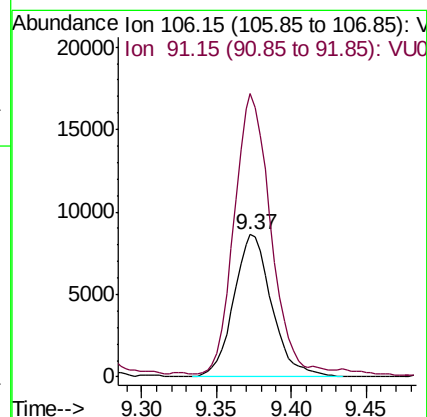
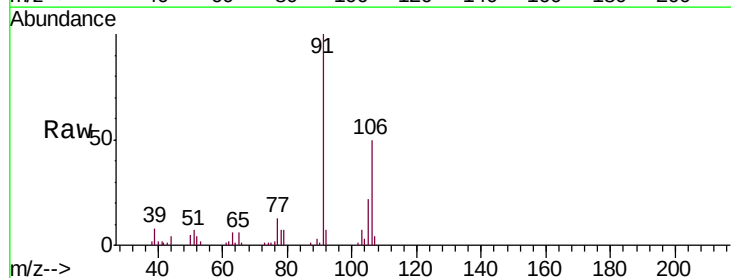
Acq: 12 Feb 2019 12:11

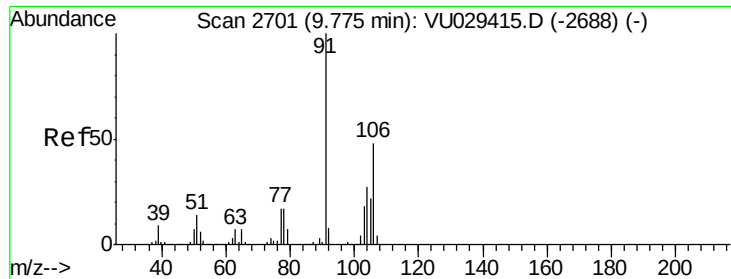
Tgt Ion: 106 Resp: 15289

Ion Ratio Lower Upper

106 100

91 198.6 135.7 251.9





#54

o-xylene

Concen: 0.543 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

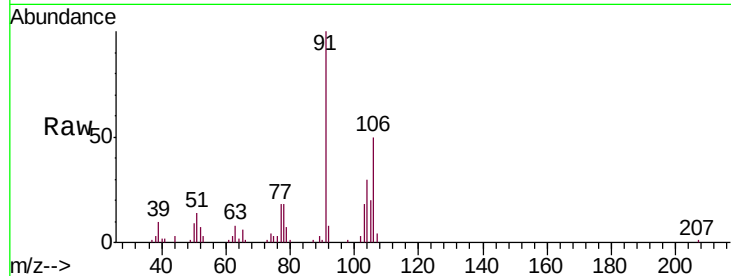
VSTD0.545

Tgt Ion:106 Resp: 14697

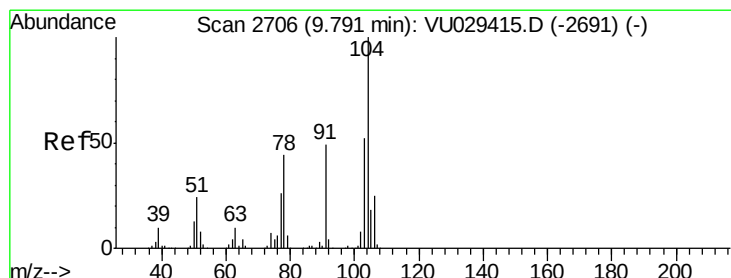
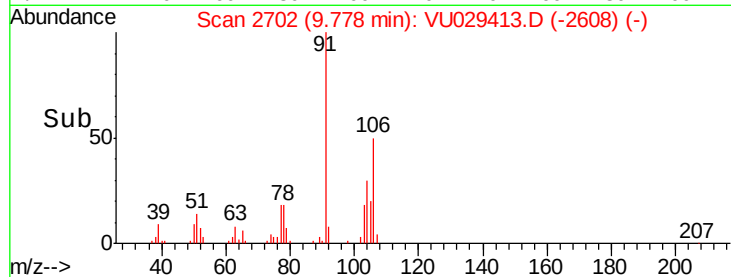
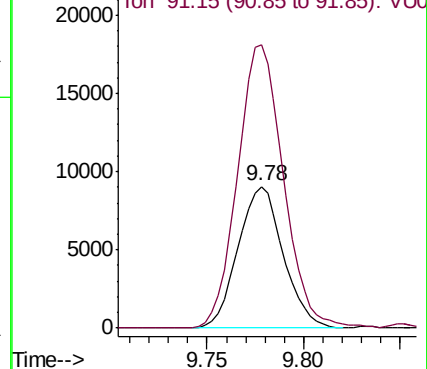
Ion Ratio Lower Upper

106 100

91 199.5 145.1 269.5



Abundance Ion 106.15 (105.85 to 106.85): V



#55

Styrene

Concen: 0.533 ug/L

RT: 9.79 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VU029413.D

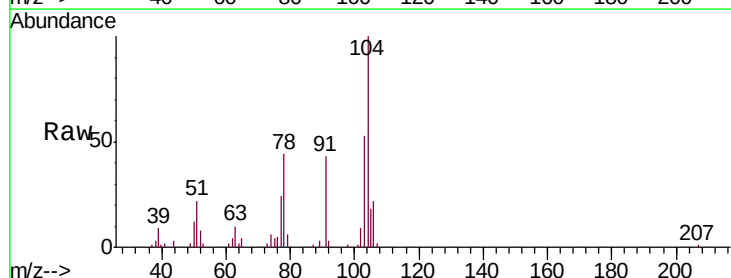
Acq: 12 Feb 2019 12:11

Tgt Ion:104 Resp: 23952

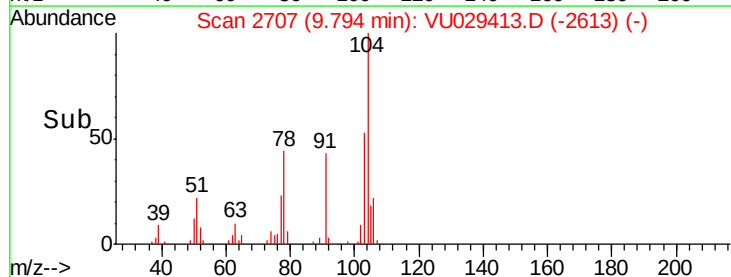
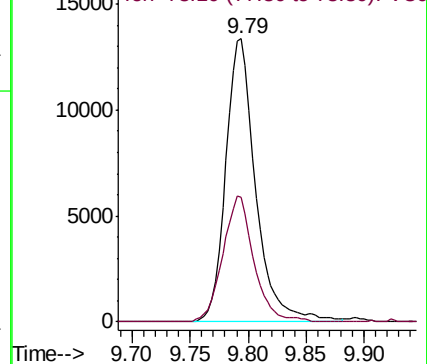
Ion Ratio Lower Upper

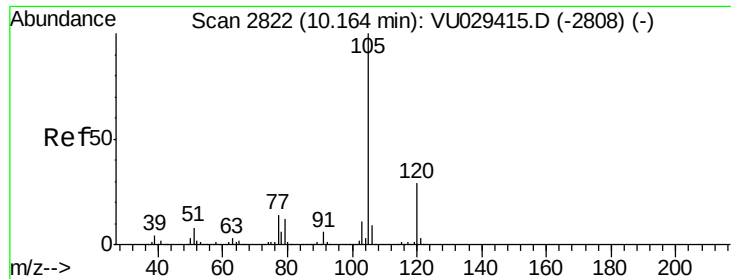
104 100

78 44.0 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V





#56

Isopropylbenzene

Concen: 0.530 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.545

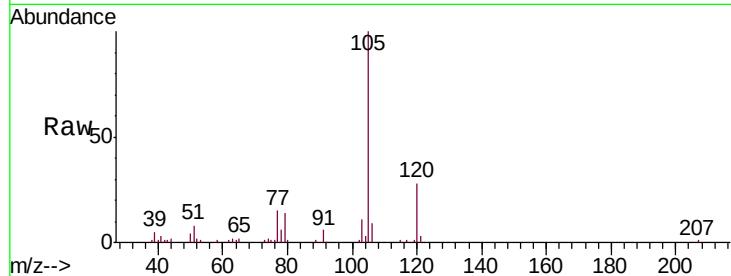
Tgt Ion:105 Resp: 37968

Ion Ratio Lower Upper

105 100

120 26.9 22.2 33.4

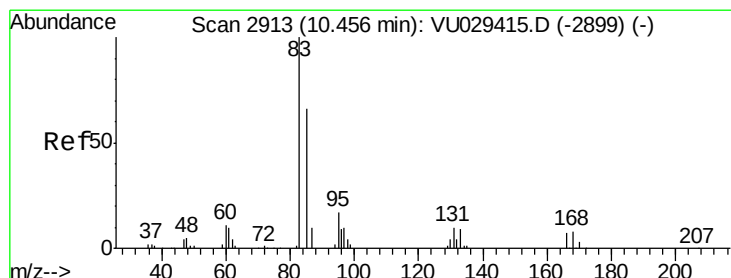
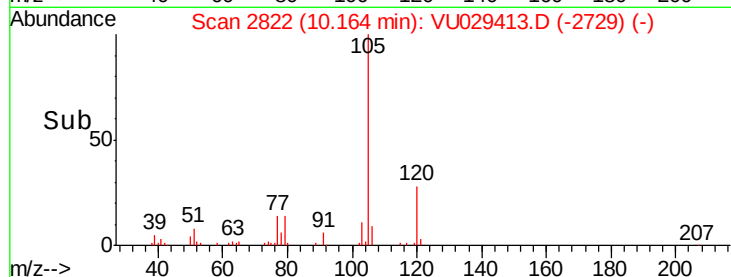
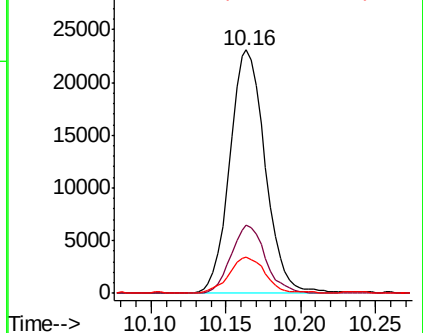
77 15.4 11.5 17.3



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: 0.540 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

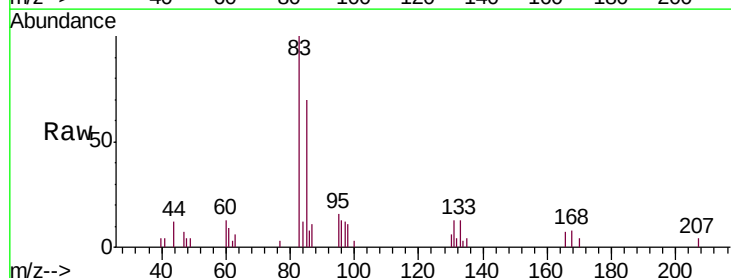
Tgt Ion: 83 Resp: 7010

Ion Ratio Lower Upper

83 100

85 70.3 46.5 86.3

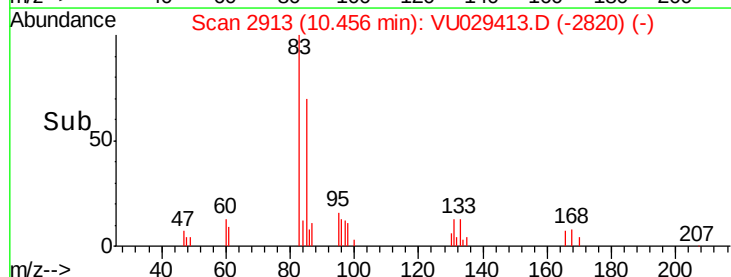
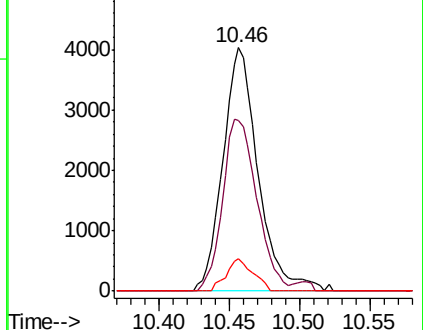
131 13.3 8.3 12.5#

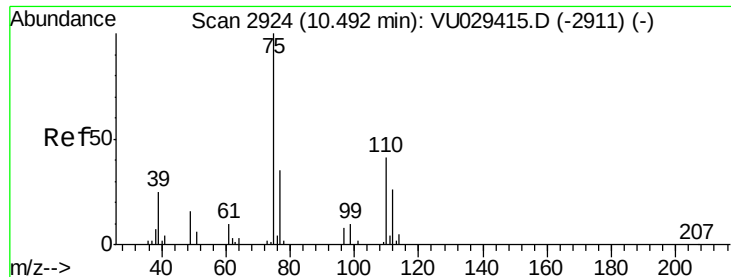


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.572 ug/L

RT: 10.49 min Scan# 2925

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

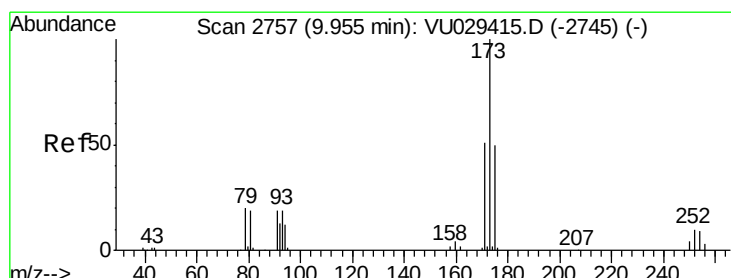
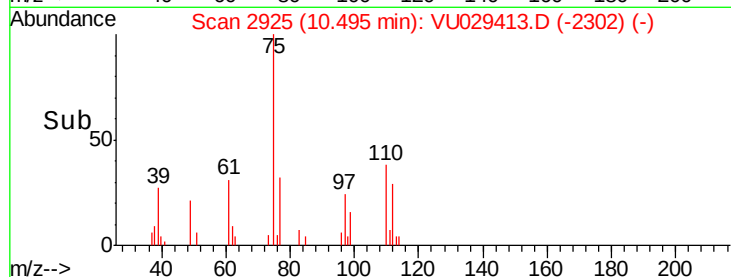
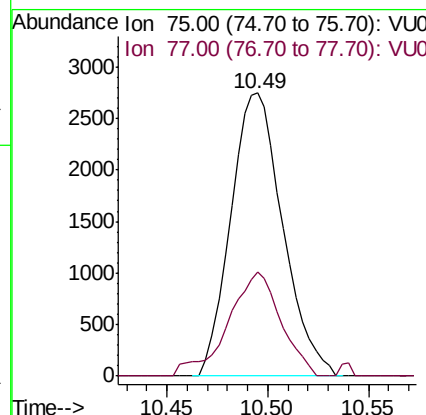
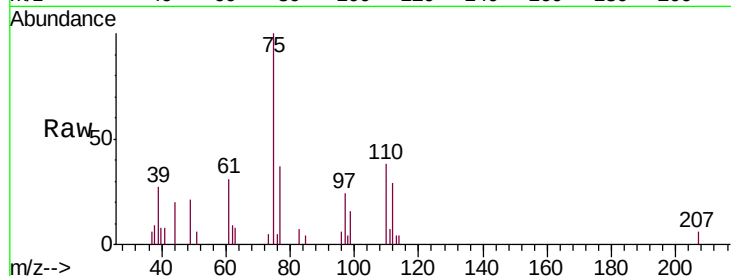
VSTD0.545

Tgt Ion: 75 Resp: 4939

Ion Ratio Lower Upper

75 100

77 37.5 28.2 42.2



#61

Bromoform

Concen: 0.524 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

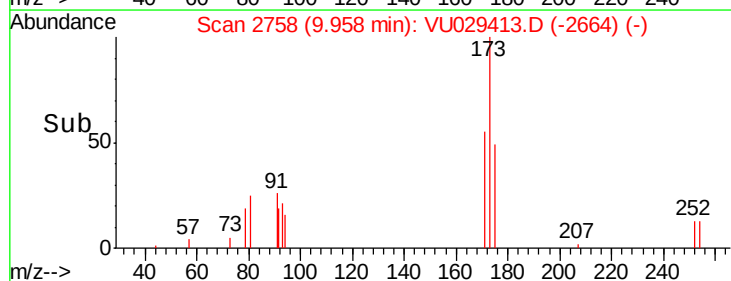
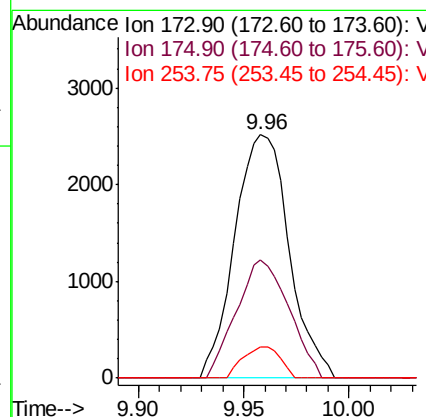
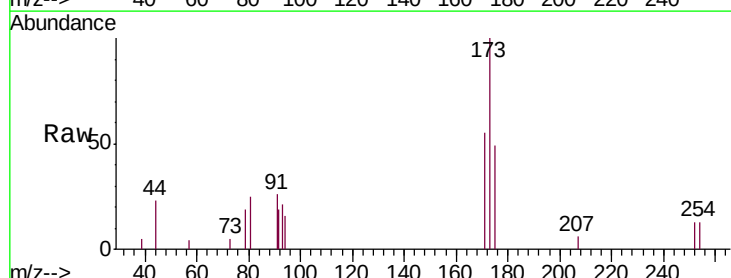
Tgt Ion: 173 Resp: 4500

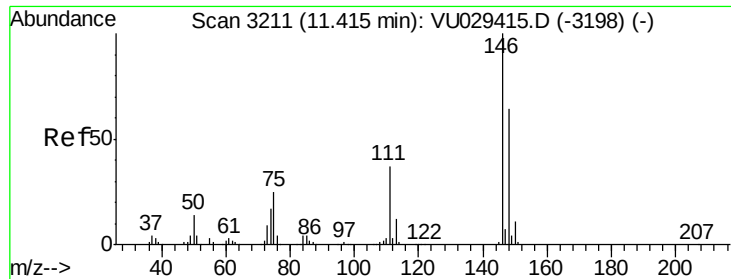
Ion Ratio Lower Upper

173 100

175 46.9 39.2 58.8

254 8.9 7.8 11.6

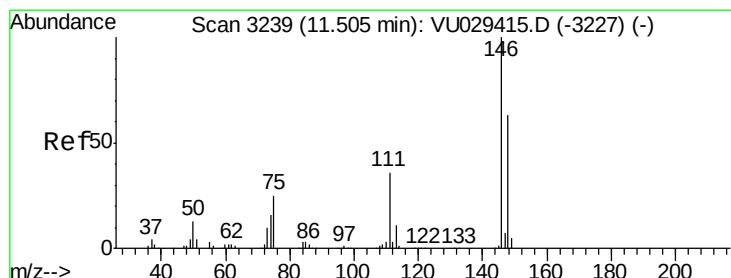
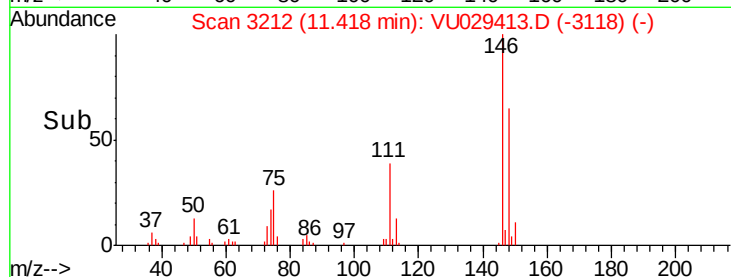
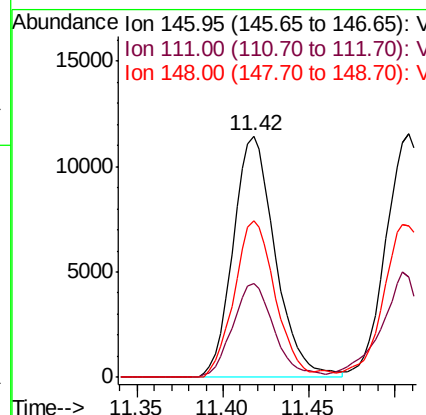
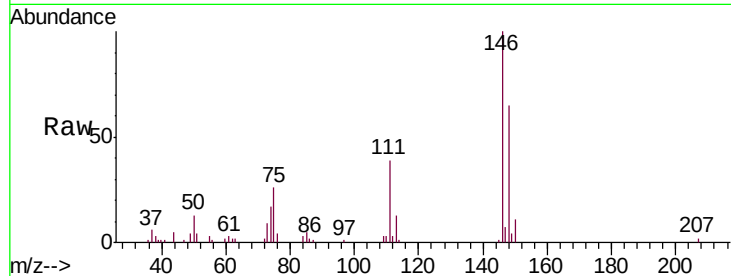




#62
 1,3-Dichlorobenzene
 Concen: 0.574 ug/L
 RT: 11.42 min Scan# 3212
 Delta R.T. 0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

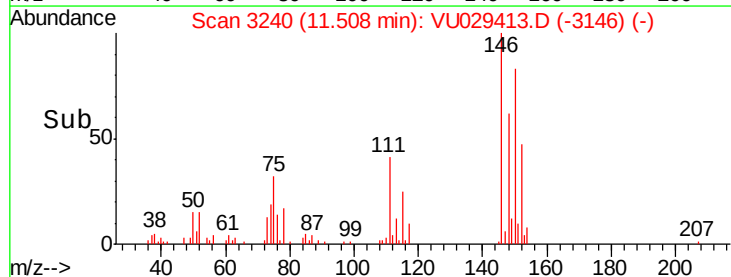
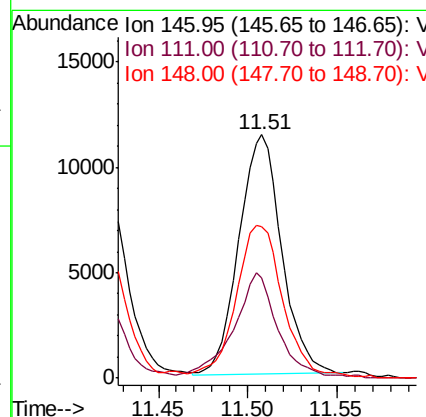
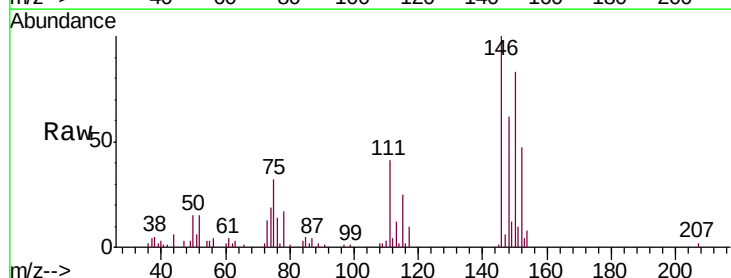
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.545

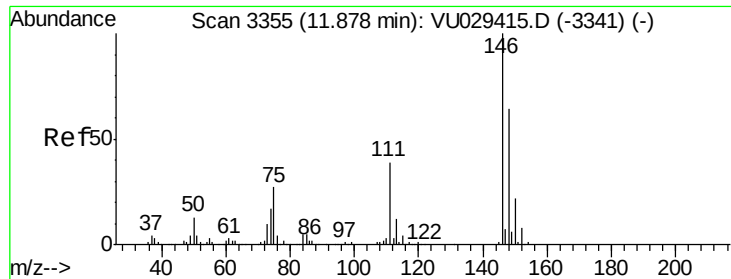
Tgt Ion:146 Resp: 19534
 Ion Ratio Lower Upper
 146 100
 111 38.9 26.1 48.5
 148 64.6 44.7 82.9



#63
 1,4-Dichlorobenzene
 Concen: 0.554 ug/L
 RT: 11.51 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Tgt Ion:146 Resp: 19118
 Ion Ratio Lower Upper
 146 100
 111 40.9 25.6 47.6
 148 62.2 44.2 82.0

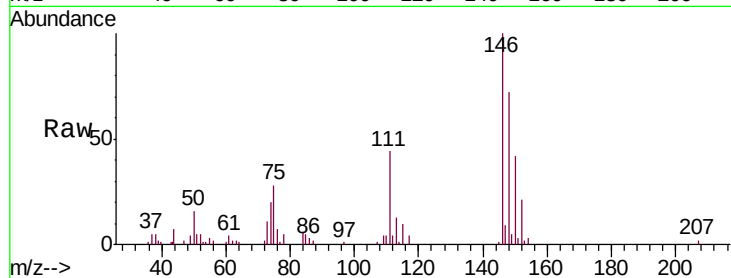




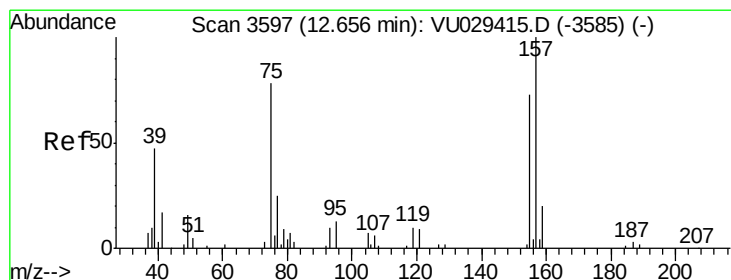
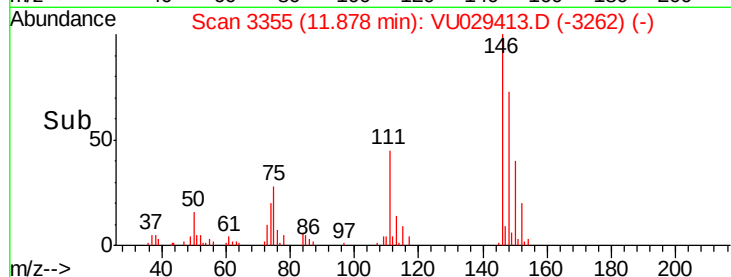
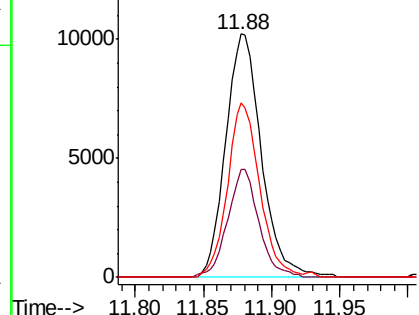
#65
 1,2-Dichlorobenzene
 Concen: 0.584 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.545

Tgt Ion: 146 Resp: 18609
 Ion Ratio Lower Upper
 146 100
 111 44.4 30.9 46.3
 148 71.8 51.0 76.4

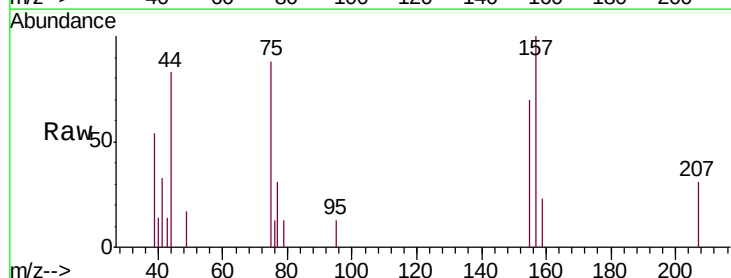


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

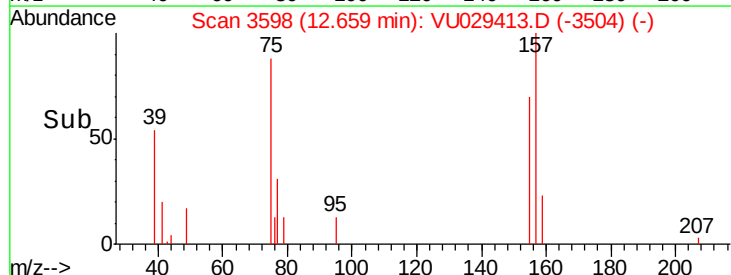
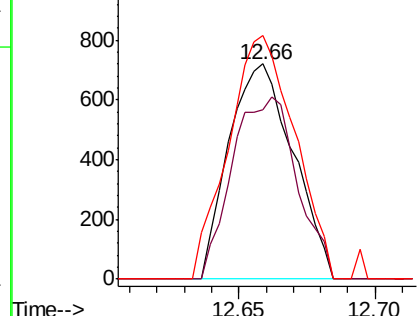


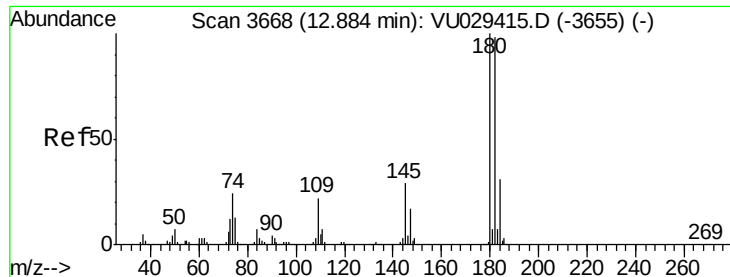
#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.558 ug/L
 RT: 12.66 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Tgt Ion: 75 Resp: 1183
 Ion Ratio Lower Upper
 75 100
 155 78.9 75.3 112.9
 157 113.0 103.0 154.4



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

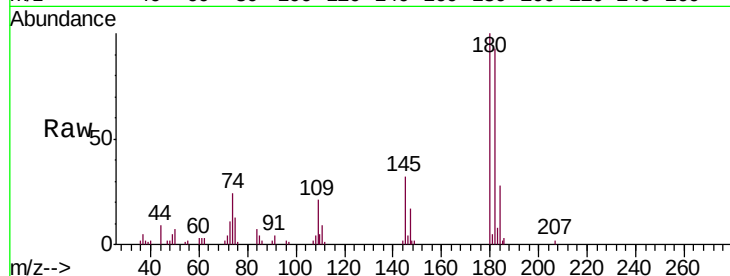




#67
 1,3,5-Trichlorobenzene
 Concen: 0.575 ug/L
 RT: 12.89 min Scan# 3670
 Delta R.T. 0.01 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.545

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.1	76.0	114.0
184	27.9	24.1	36.1
145	29.2	22.6	34.0



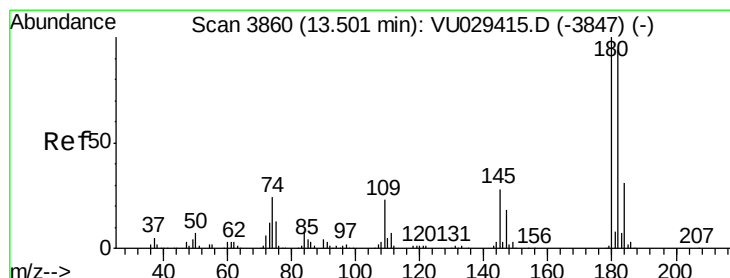
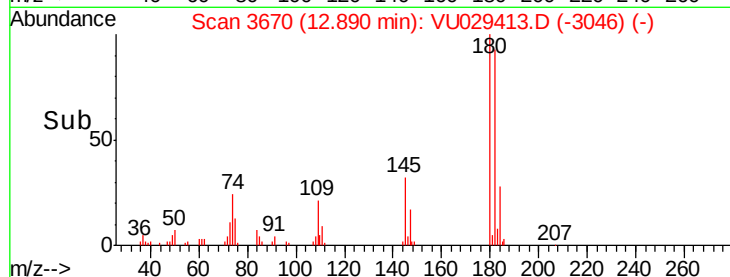
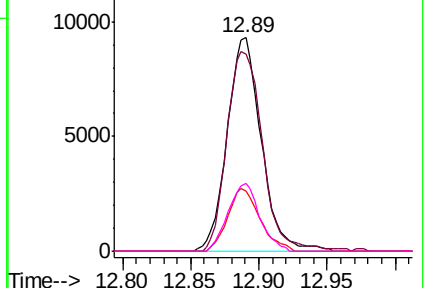
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

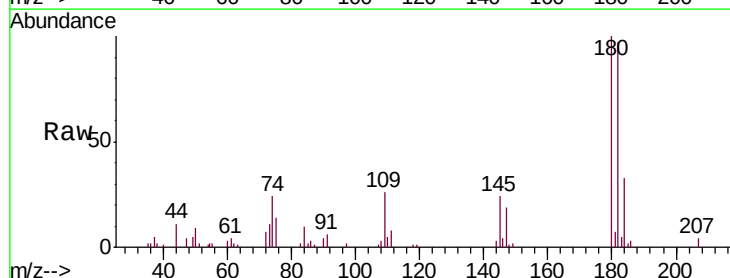
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.515 ug/L
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.00 min
 Lab File: VU029413.D
 Acq: 12 Feb 2019 12:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.4	77.1	115.7
145	27.8	23.1	34.7

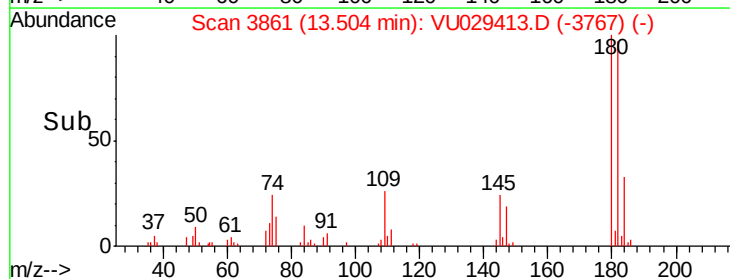
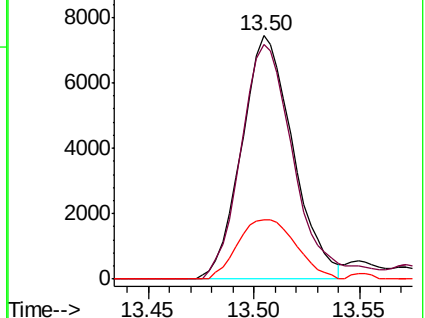


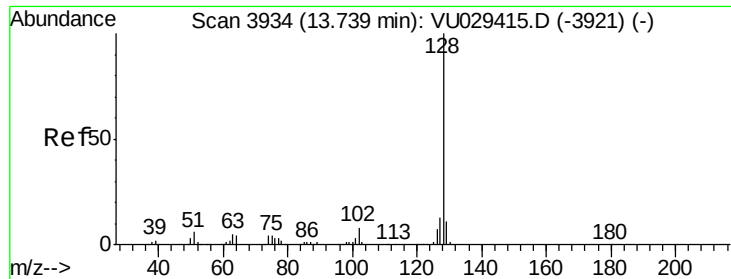
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.614 ug/L

RT: 13.75 min Scan# 3937

Delta R.T. 0.01 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.545

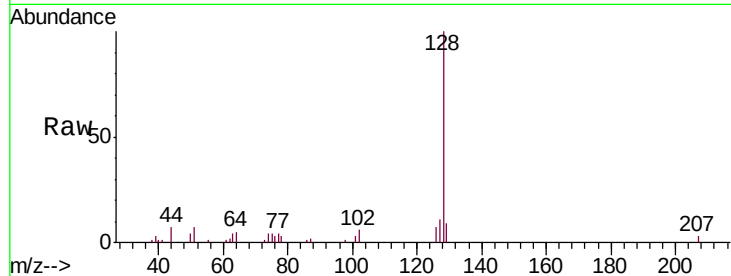
Tgt Ion:128 Resp: 23450

Ion Ratio Lower Upper

128 100

129 10.3 8.7 13.1

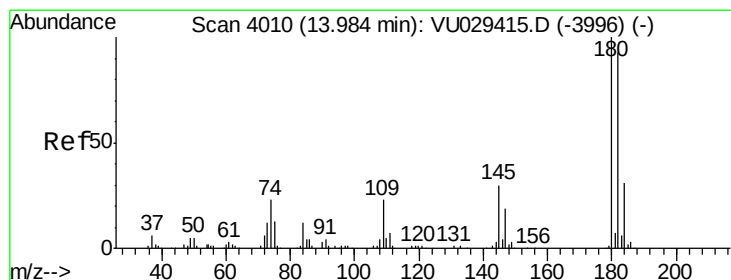
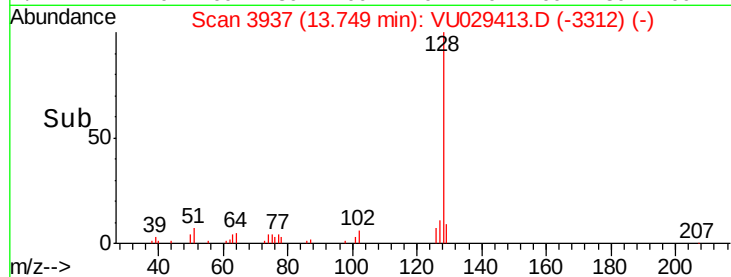
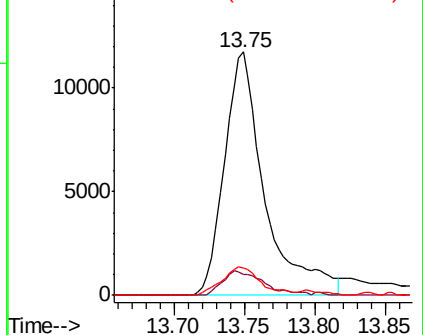
127 11.2 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.606 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU029413.D

Acq: 12 Feb 2019 12:11

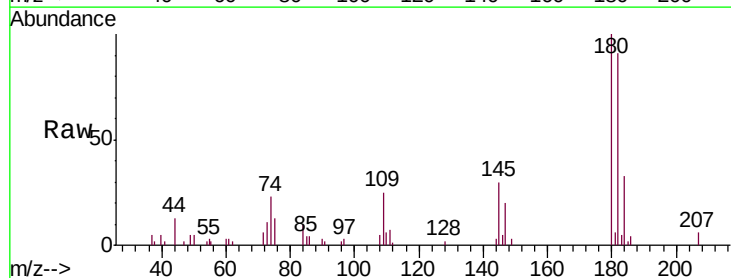
Tgt Ion:180 Resp: 13427

Ion Ratio Lower Upper

180 100

182 92.3 75.9 113.9

145 27.8 23.8 35.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

