

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
 Data File : VU025428.D
 Acq On : 16 Jul 2018 16:47
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Quant Time: Jul 17 02:27:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 17 02:25:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	354281	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	332190	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	168106	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	85617	44.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.88%
7) Chloroethane-d5	1.67	69	72166	46.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.28%
11) 1,1-Dichloroethene-d2	2.27	63	181024	43.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.94%
21) 2-Butanone-d5	4.18	46	201281	104.57	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.57%
24) Chloroform-d	4.65	84	216555	47.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.82%
26) 1,2-Dichloroethane-d4	5.31	65	144551	46.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.74%
32) Benzene-d6	5.35	84	397928	47.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.36%
36) 1,2-Dichloropropane-d6	6.34	67	130105	48.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.38%
41) Toluene-d8	7.57	98	386256	47.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.20%
43) trans-1,3-Dichloropropene-	7.85	79	65189	47.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.18%
47) 2-Hexanone-d5	8.31	63	148102	102.84	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.84%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	205983	49.70	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.40%
64) 1,2-Dichlorobenzene-d4	11.87	152	168237	47.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	143985	46.395	ug/L 100
3) Chloromethane	1.33	50	149829	45.168	ug/L 99
5) Vinyl chloride	1.40	62	124496	46.023	ug/L 99
6) Bromomethane	1.62	94	34733	48.234	ug/L 97
8) Chloroethane	1.69	64	75647	47.587	ug/L 98
9) Trichlorofluoromethane	1.88	101	172411	46.335	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	98479	42.981	ug/L 99
12) 1,1-Dichloroethene	2.28	96	88946	42.776	ug/L 97
13) Acetone	2.32	43	158921	78.430	ug/L 99
14) Carbon disulfide	2.47	76	291126	44.532	ug/L 99
15) Methyl Acetate	2.62	43	153307	50.897	ug/L 98
16) Methylene chloride	2.70	84	123757	46.005	ug/L 97
17) trans-1,2-Dichloroethene	2.98	96	106141	45.817	ug/L 95
18) Methyl tert-butyl Ether	3.00	73	385442	47.307	ug/L 100
19) 1,1-Dichloroethane	3.45	63	214932	47.699	ug/L 98
20) cis-1,2-Dichloroethene	4.23	96	127317	46.834	ug/L 100
22) 2-Butanone	4.27	43	233509	95.687	ug/L 100

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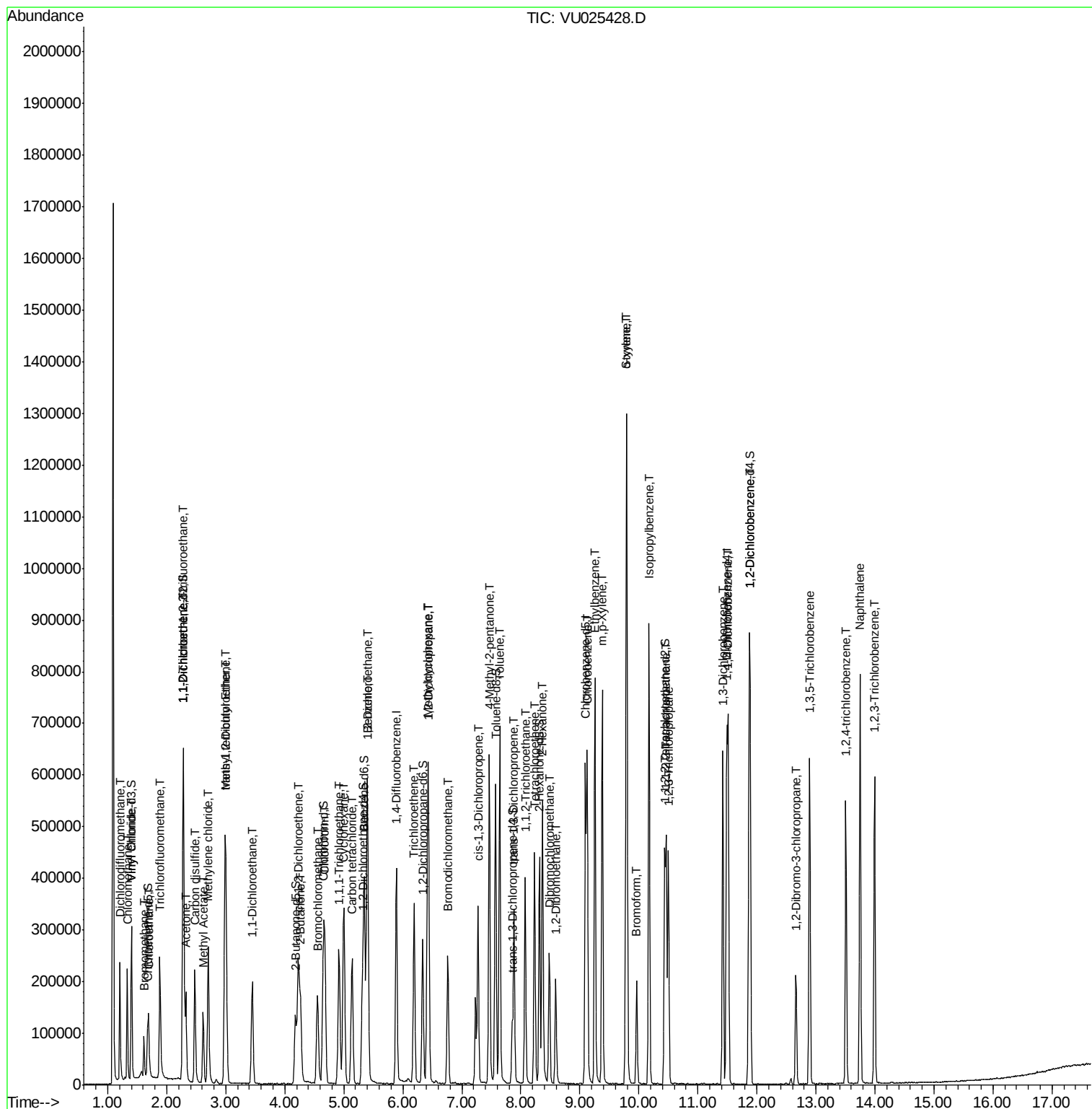
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	61923	48.565	ug/L	98
25) Chloroform	4.68	83	228651	47.973	ug/L	97
27) 1,2-Dichloroethane	5.41	62	182398	46.549	ug/L	100
29) Cyclohexane	5.00	56	182383	46.721	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	204513	47.589	ug/L	100
31) Carbon tetrachloride	5.14	117	175544	46.480	ug/L	99
33) Benzene	5.39	78	458922	47.665	ug/L	100
34) Trichloroethene	6.19	95	120695	46.645	ug/L	99
35) Methylcyclohexane	6.42	83	190353	45.996	ug/L	99
37) 1,2-Dichloropropane	6.44	63	128529	48.436	ug/L	100
38) Bromodichloromethane	6.76	83	161213	47.057	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	192794	47.469	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	424859	102.601	ug/L	100
42) Toluene	7.64	91	488801	46.945	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	180399	48.038	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	122189	47.893	ug/L	99
46) Tetrachloroethene	8.23	164	101572	47.366	ug/L	99
48) 2-Hexanone	8.36	43	352212	98.612	ug/L	99
49) Dibromochloromethane	8.48	129	127843	46.525	ug/L	100
50) 1,2-Dibromoethane	8.59	107	134051	48.400	ug/L	97
51) Chlorobenzene	9.12	112	335205	47.026	ug/L	99
52) Ethylbenzene	9.26	91	559277	47.201	ug/L	98
53) m,p-Xylene	9.38	106	213658	47.012	ug/L	99
54) o-xylene	9.78	106	220526	47.887	ug/L	97
55) Styrene	9.80	104	362530	48.109	ug/L	100
56) Isopropylbenzene	10.17	105	571006	47.960	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	216225	47.832	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	178144	47.742	ug/L	99
61) Bromoform	9.96	173	88512	45.548	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	260027	46.611	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	258314	46.156	ug/L	99
65) 1,2-Dichlorobenzene	11.89	146	275995	46.919	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	51282	50.146	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	192856	46.229	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	168143	46.603	ug/L	99
69) Naphthalene	13.75	128	614386	48.874	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	181954	46.923	ug/L	99

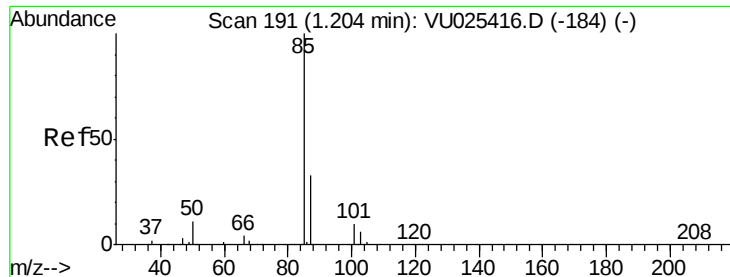
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 46.395 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

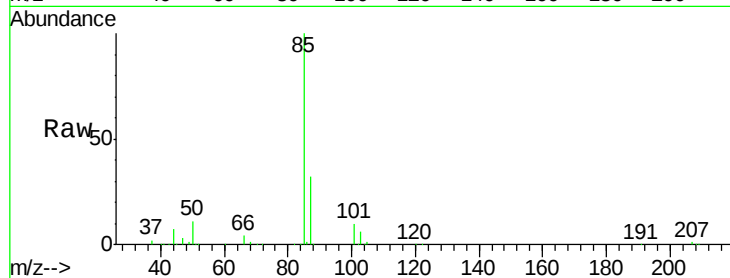
VSTD05057

Tgt Ion: 85 Resp: 143985

Ion Ratio Lower Upper

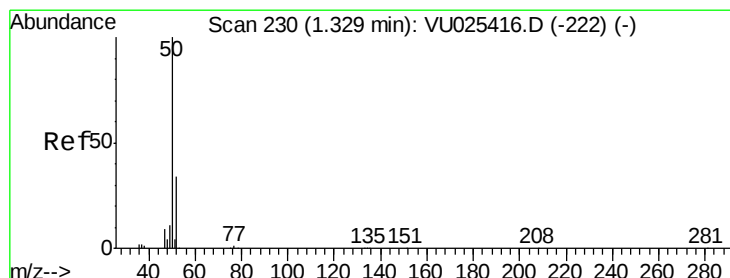
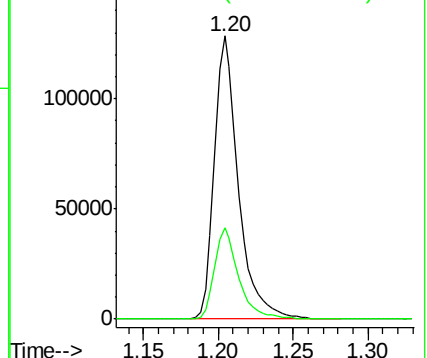
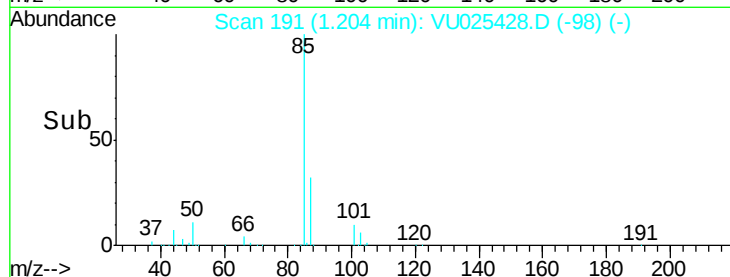
85 100

87 32.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VU025428.D (-98) (-)

Ion 87.00 (86.70 to 87.70): VU025428.D (-98) (-)



#3

Chloromethane

Concen: 45.168 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025428.D

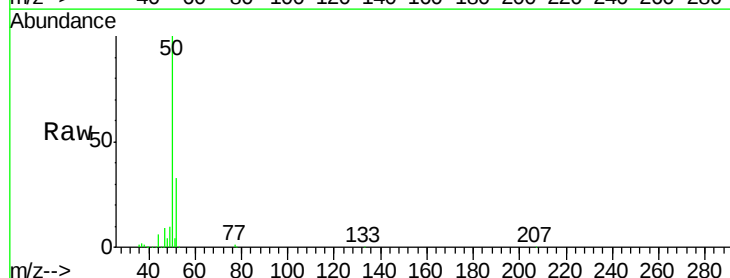
Acq: 16 Jul 2018 16:47

Tgt Ion: 50 Resp: 149829

Ion Ratio Lower Upper

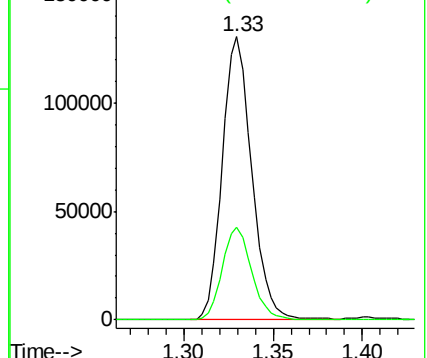
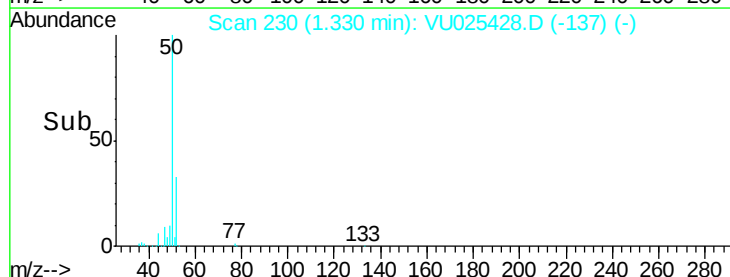
50 100

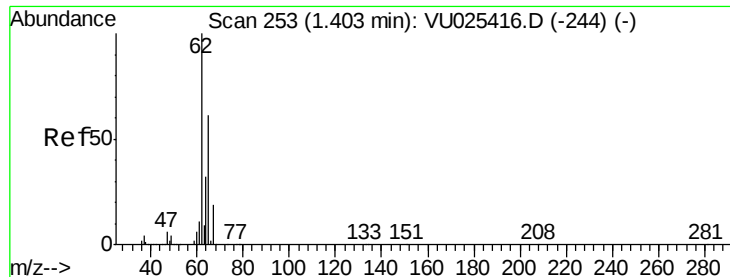
52 32.9 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU025428.D (-137) (-)

Ion 52.00 (51.70 to 52.70): VU025428.D (-137) (-)





#5

Vinyl chloride

Concen: 46.023 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

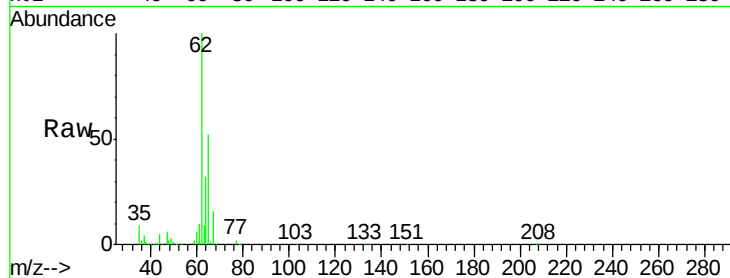
VSTD05057

Tgt Ion: 62 Resp: 124496

Ion Ratio Lower Upper

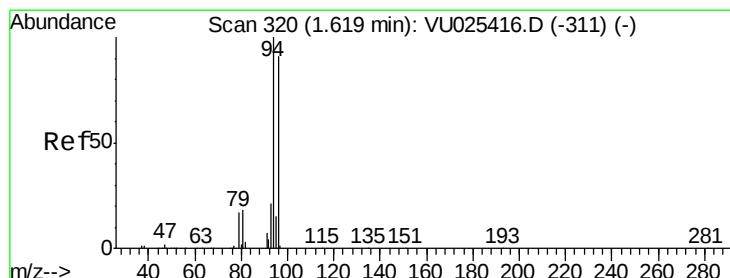
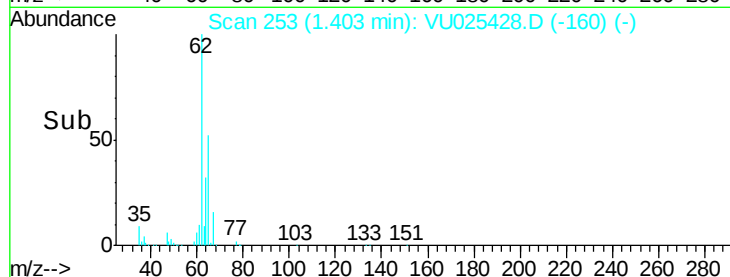
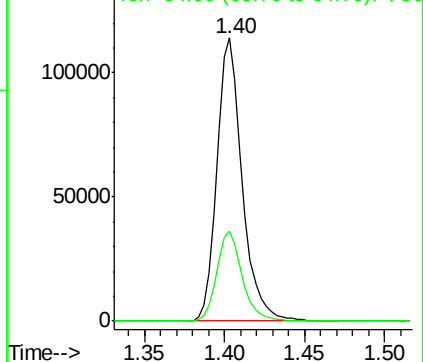
62 100

64 31.7 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 48.234 ug/L

RT: 1.62 min Scan# 319

Delta R.T. -0.00 min

Lab File: VU025428.D

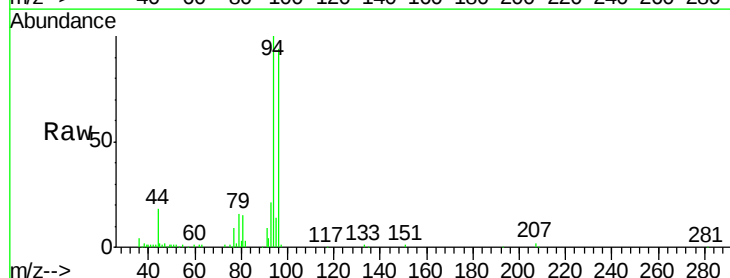
Acq: 16 Jul 2018 16:47

Tgt Ion: 94 Resp: 34733

Ion Ratio Lower Upper

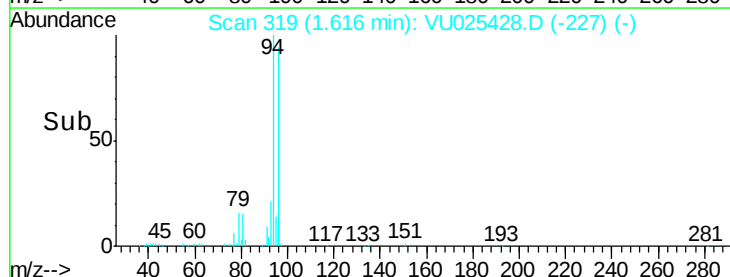
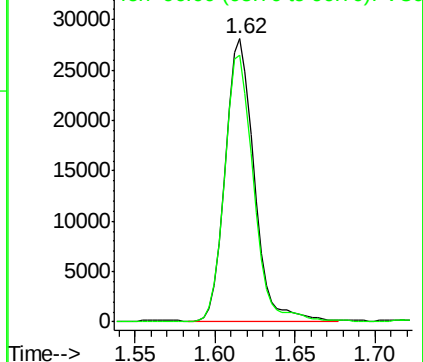
94 100

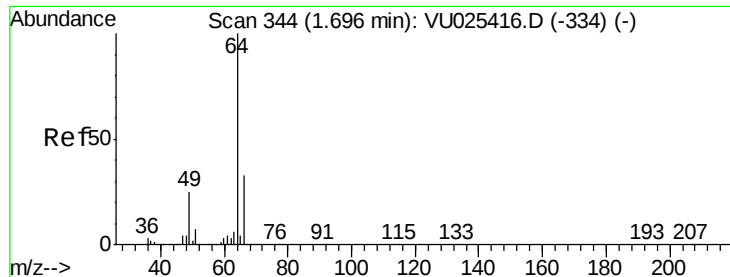
96 94.3 64.2 119.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 47.587 ug/L

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

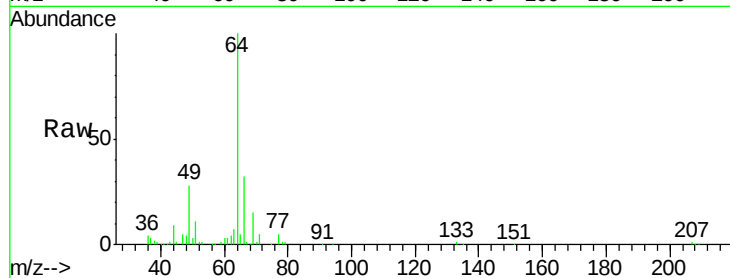
VSTD05057

Tgt Ion: 64 Resp: 75647

Ion Ratio Lower Upper

64 100

66 32.0 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU025416.D (-334) (-)

Ion 66.00 (65.70 to 66.70): VU025416.D (-334) (-)

60000

50000

40000

30000

20000

10000

0

1.69

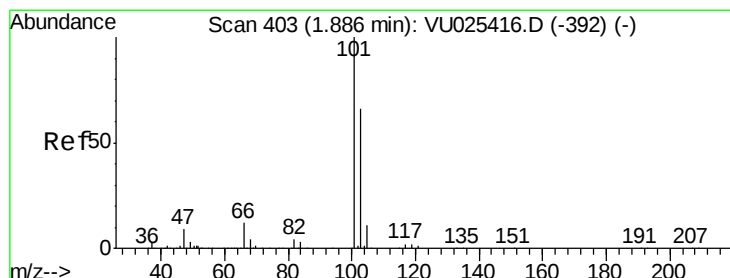
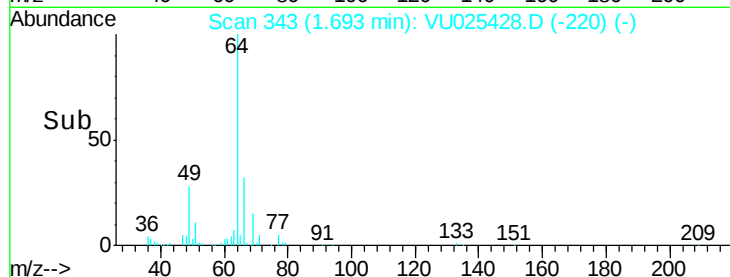
1.65

1.70

1.75

1.80

Time-->



#9

Trichlorofluoromethane

Concen: 46.335 ug/L

RT: 1.88 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU025428.D

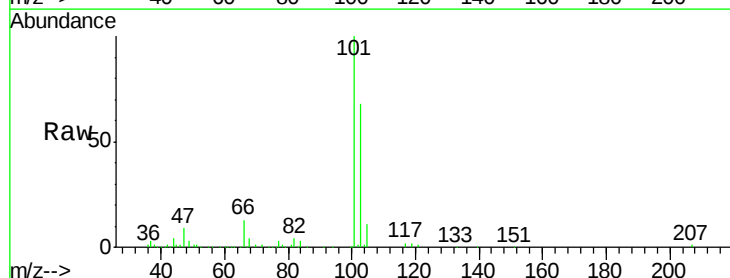
Acq: 16 Jul 2018 16:47

Tgt Ion: 101 Resp: 172411

Ion Ratio Lower Upper

101 100

103 66.4 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VU025416.D (-392) (-)

Ion 103.00 (102.70 to 103.70): VU025416.D (-392) (-)

120000

100000

80000

60000

40000

20000

0

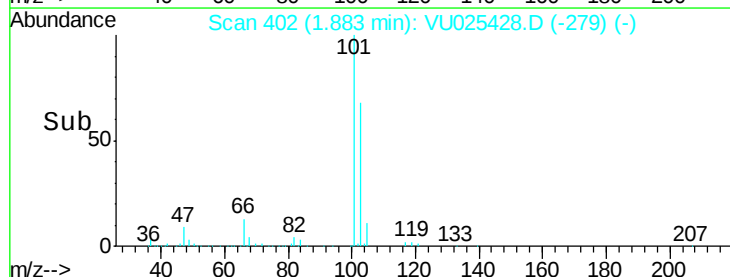
1.88

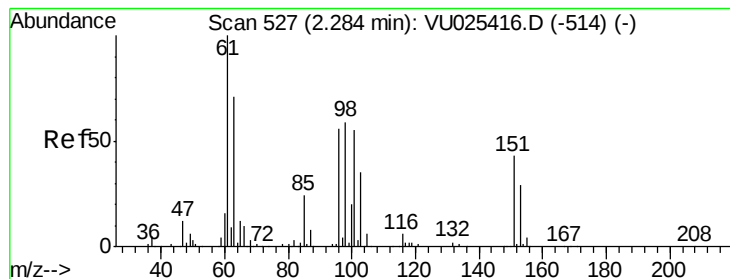
1.80

1.90

2.00

Time-->





#10

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

Concen: 42.981 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

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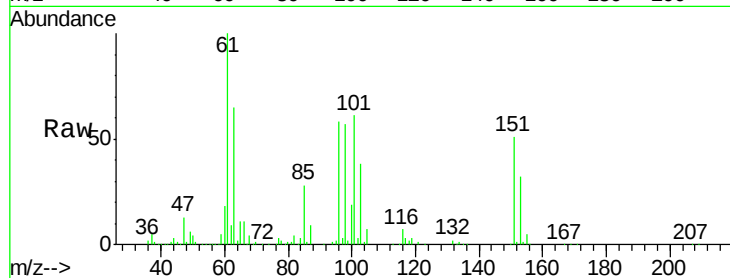
Tgt Ion:101 Resp: 98479

Ion Ratio Lower Upper

101 100

85 44.2 34.7 52.1

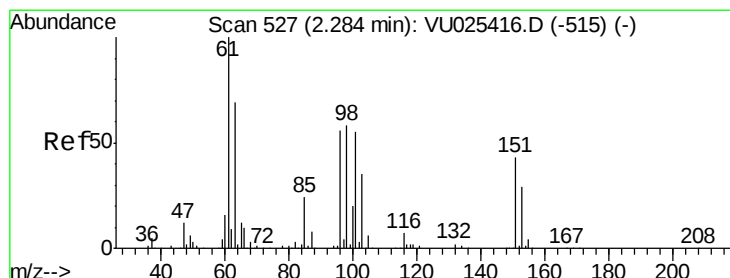
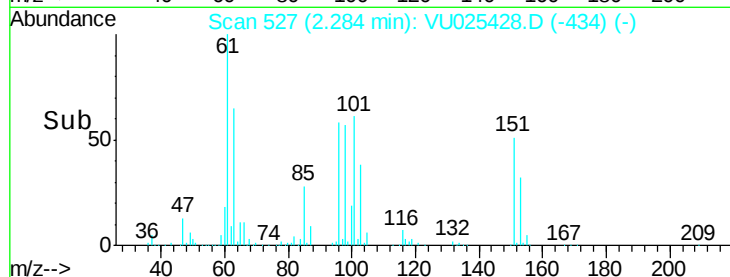
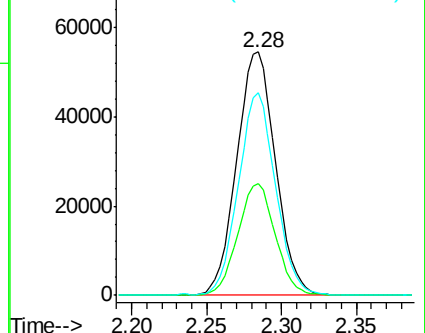
151 79.5 64.4 96.6



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: 42.776 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

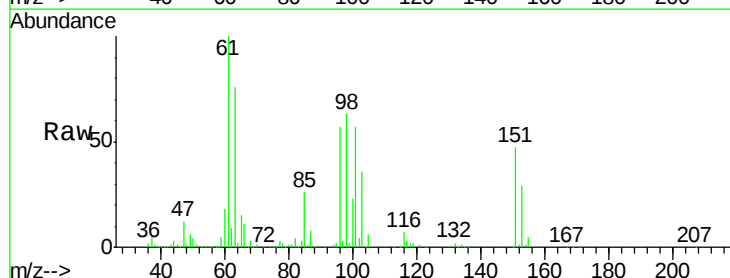
Tgt Ion: 96 Resp: 88946

Ion Ratio Lower Upper

96 100

61 175.8 125.9 233.9

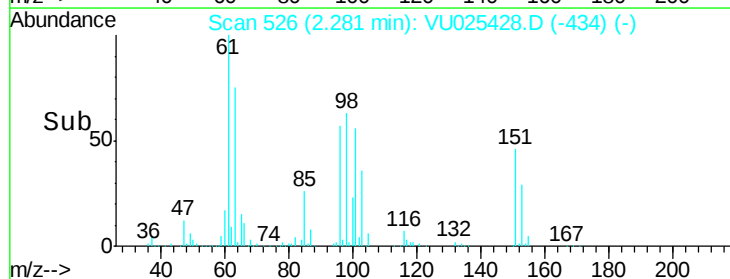
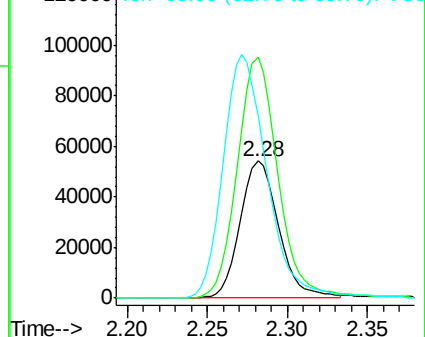
63 132.8 90.4 167.8

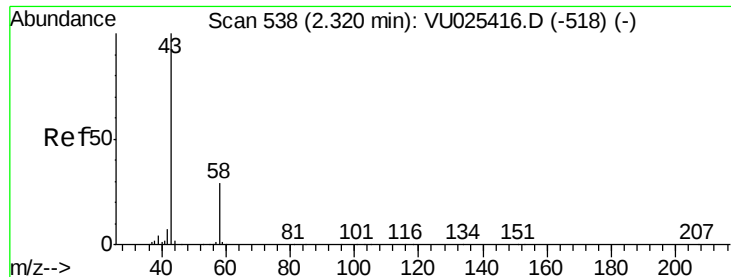


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 78.430 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

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ClientSampleId :

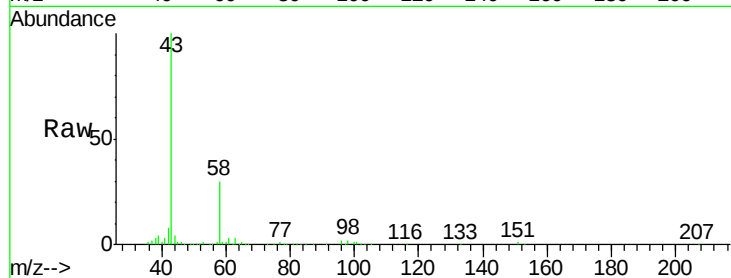
VSTD05057

Tgt Ion: 43 Resp: 158921

Ion Ratio Lower Upper

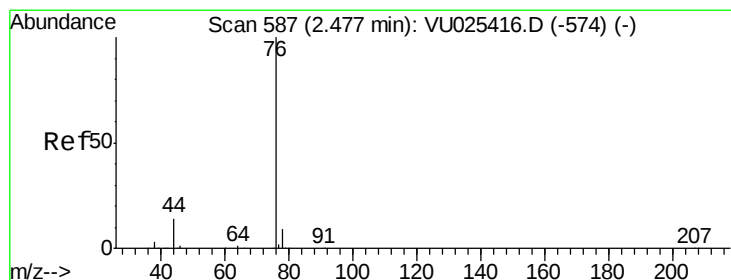
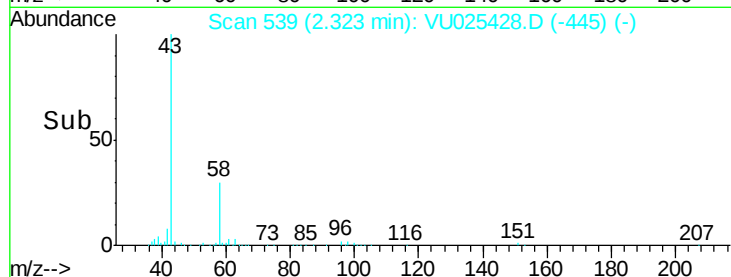
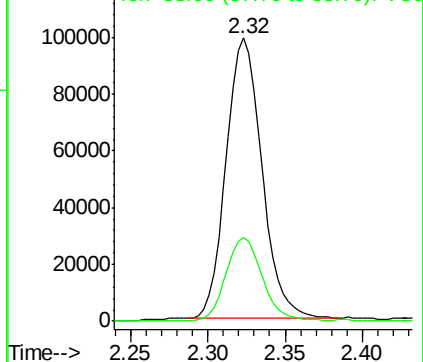
43 100

58 30.0 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 44.532 ug/L

RT: 2.47 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU025428.D

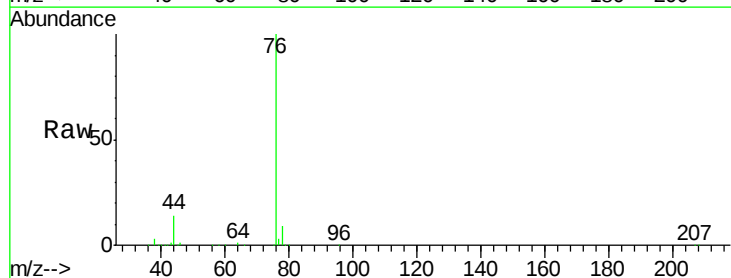
Acq: 16 Jul 2018 16:47

Tgt Ion: 76 Resp: 291126

Ion Ratio Lower Upper

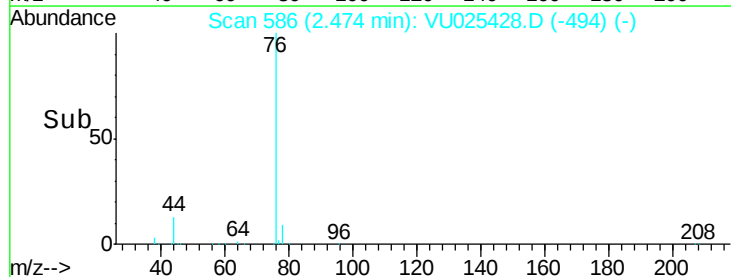
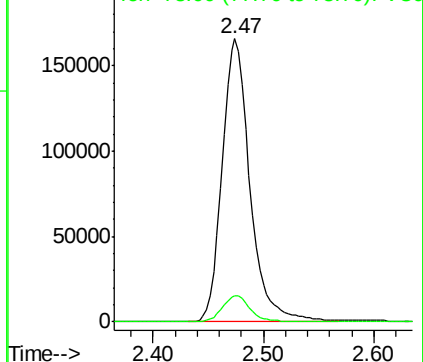
76 100

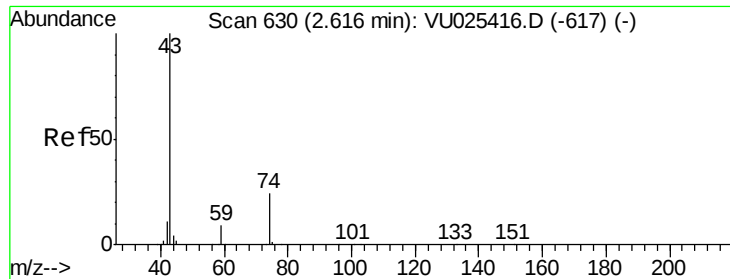
78 9.2 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

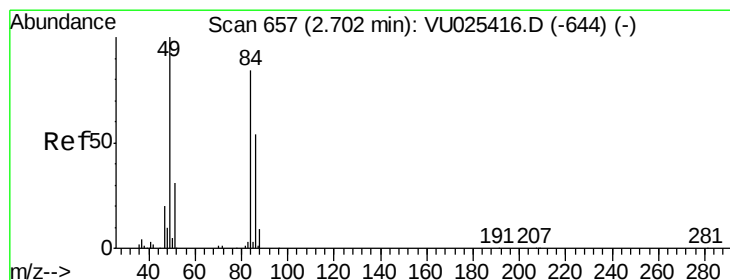
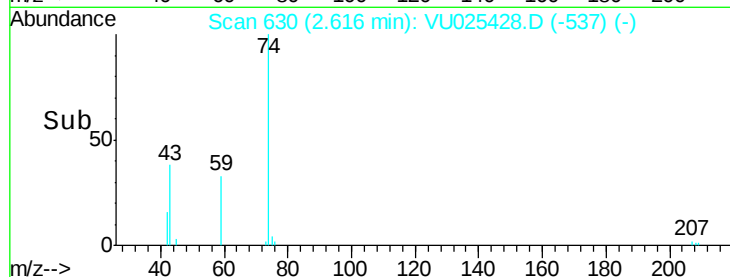
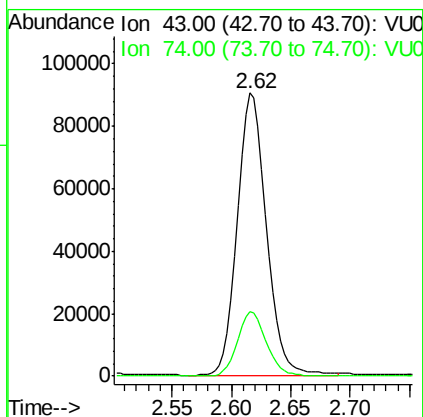
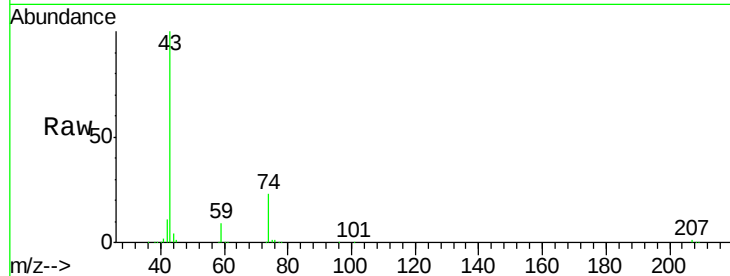




#15
Methyl Acetate
Concen: 50.897 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

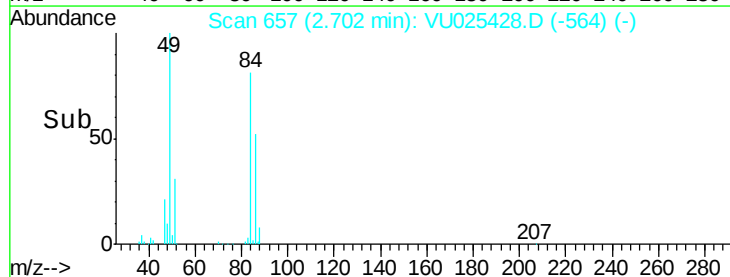
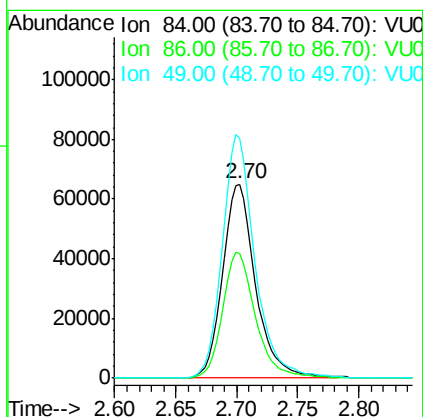
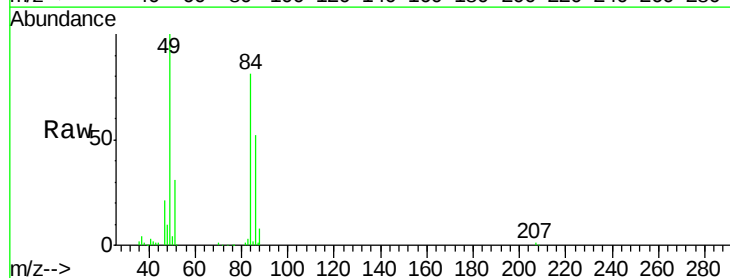
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

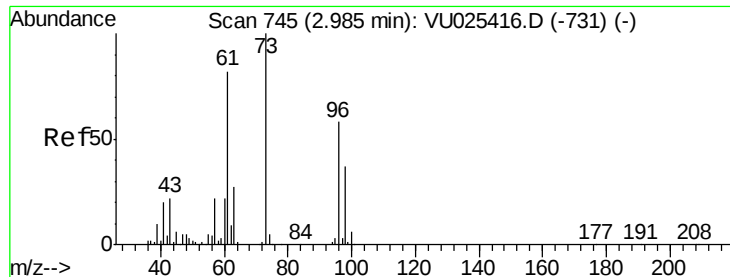
Tgt Ion: 43 Resp: 153307
Ion Ratio Lower Upper
43 100
74 22.7 18.8 28.2



#16
Methylene chloride
Concen: 46.005 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

Tgt Ion: 84 Resp: 123757
Ion Ratio Lower Upper
84 100
86 64.3 45.2 84.0
49 123.7 83.6 155.2





#17

trans-1,2-Dichloroethene

Concen: 45.817 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

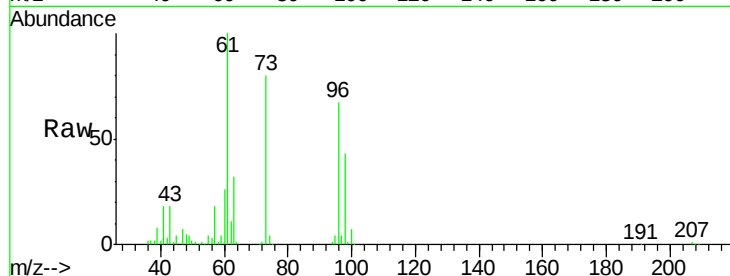
Tgt Ion: 96 Resp: 106141

Ion Ratio Lower Upper

96 100

61 148.5 98.2 182.4

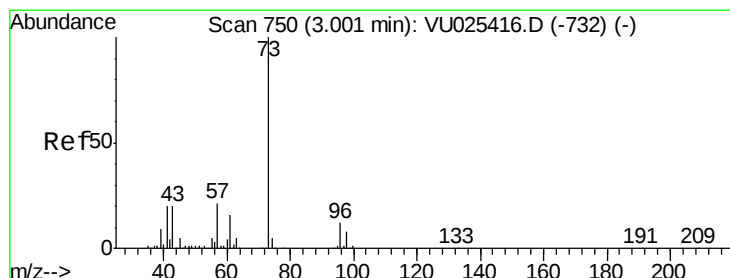
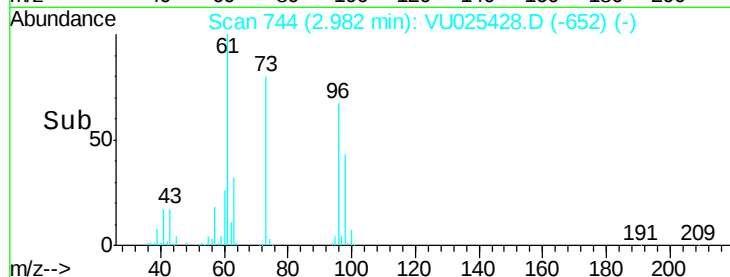
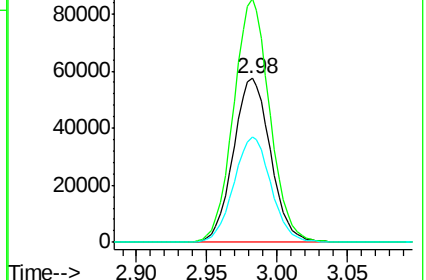
98 64.1 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VU025428.D (-652) (-)

Ion 61.00 (60.70 to 61.70): VU025428.D (-652) (-)

Ion 98.00 (97.70 to 98.70): VU025428.D (-652) (-)



#18

Methyl tert-butyl Ether

Concen: 47.307 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

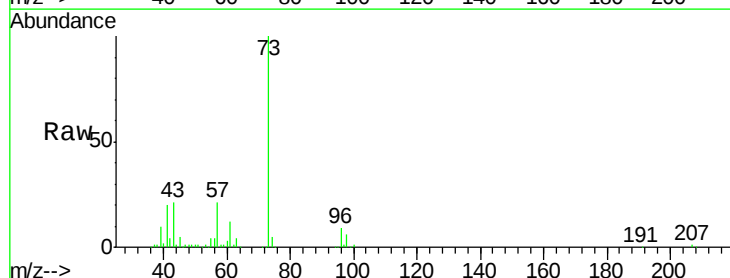
Tgt Ion: 73 Resp: 385442

Ion Ratio Lower Upper

73 100

43 21.4 16.7 25.1

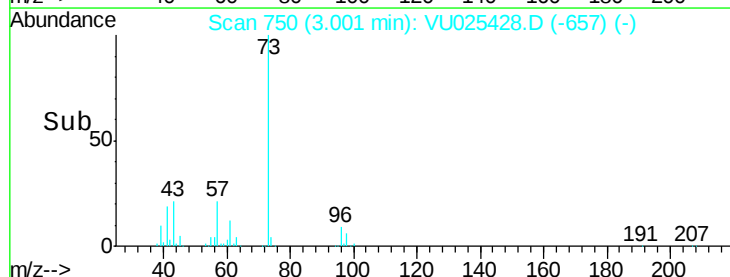
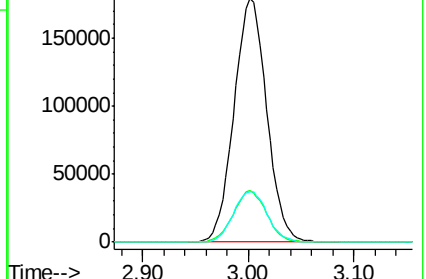
57 21.6 17.3 25.9

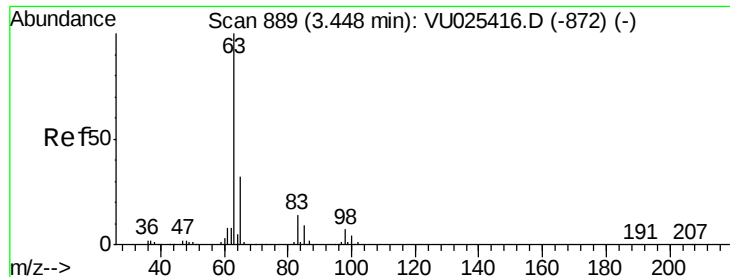


Abundance Ion 73.00 (72.70 to 73.70): VU025428.D (-657) (-)

Ion 43.00 (42.70 to 43.70): VU025428.D (-657) (-)

Ion 57.00 (56.70 to 57.70): VU025428.D (-657) (-)

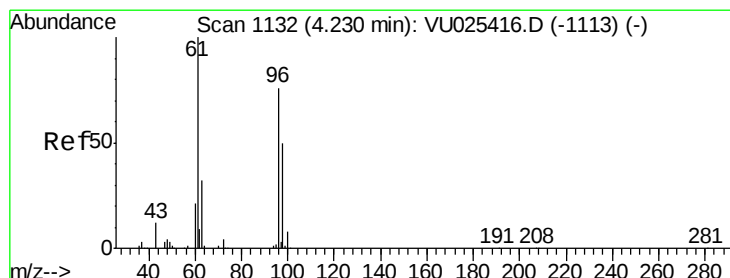
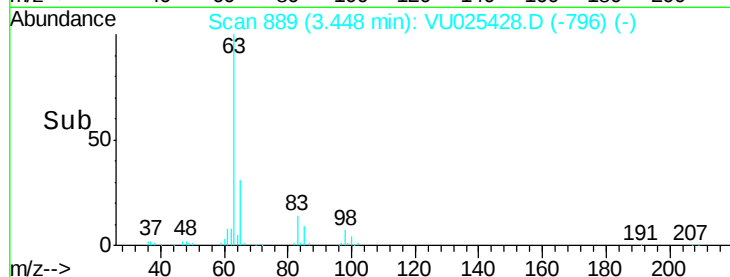
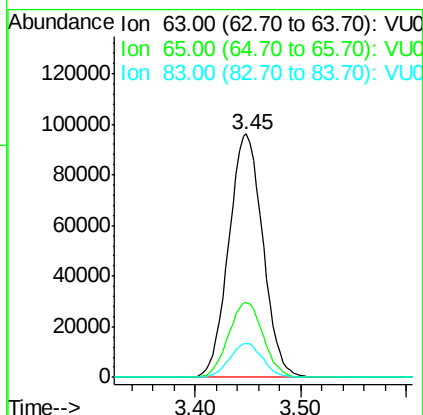
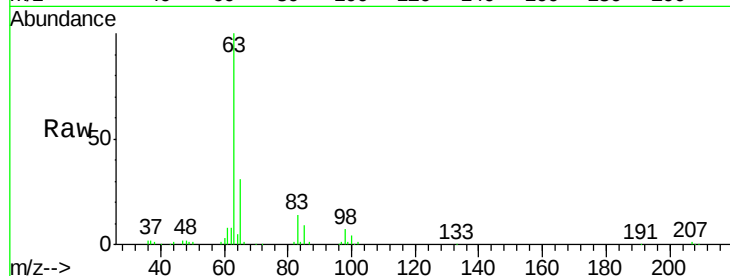




#19
 1,1-Dichloroethane
 Concen: 47.699 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU025428.D
 Acq: 16 Jul 2018 16:47

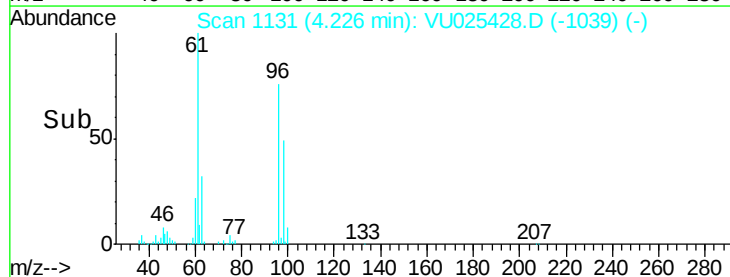
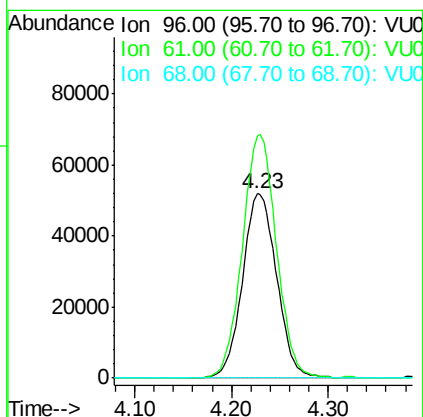
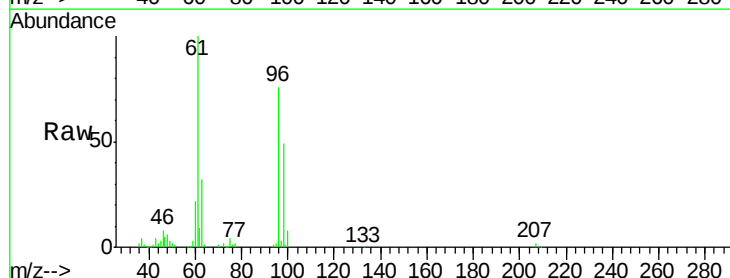
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

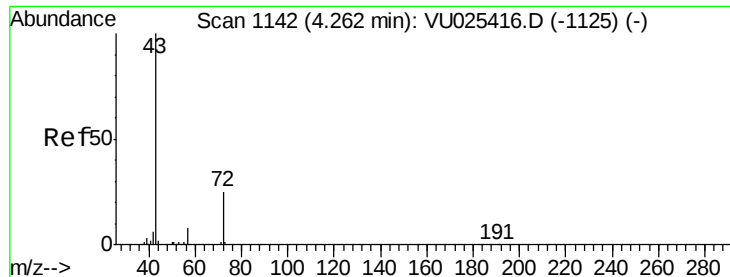
Tgt Ion: 63 Resp: 214932
 Ion Ratio Lower Upper
 63 100
 65 30.9 22.6 42.0
 83 14.0 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 46.834 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU025428.D
 Acq: 16 Jul 2018 16:47

Tgt Ion: 96 Resp: 127317
 Ion Ratio Lower Upper
 96 100
 61 131.1 92.0 170.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 95.687 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampled :

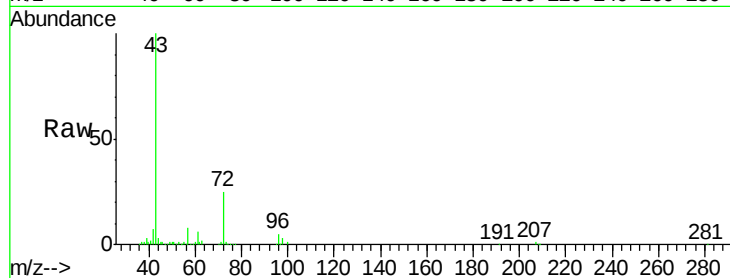
VSTD05057

Tgt Ion: 43 Resp: 233509

Ion Ratio Lower Upper

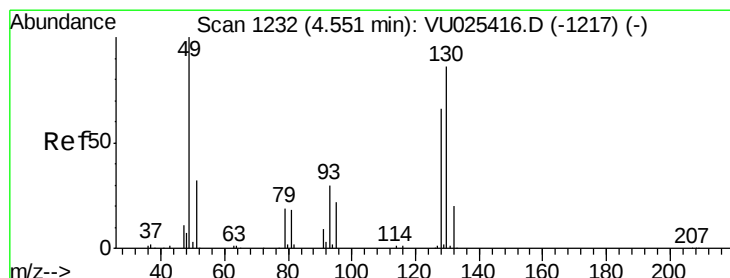
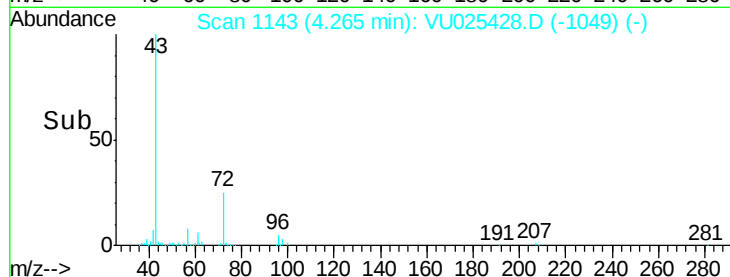
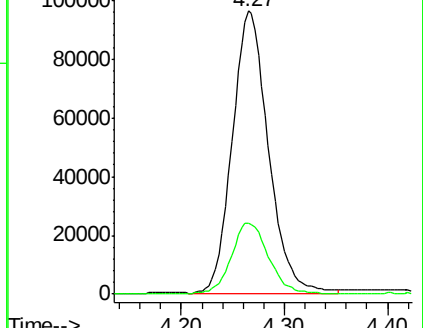
43 100

72 26.4 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VU025428.D (-1143) (-)

Ion 72.00 (71.70 to 72.70): VU025428.D (-1143) (-)



#23

Bromochloromethane

Concen: 48.565 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Tgt Ion: 128 Resp: 61923

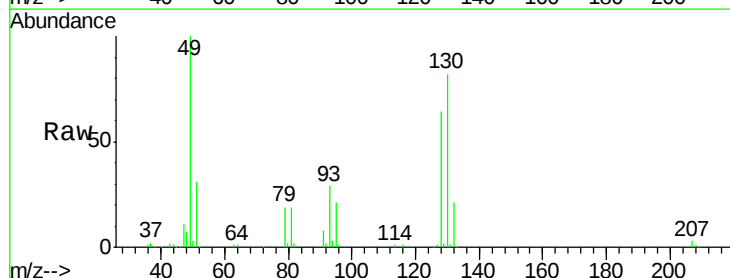
Ion Ratio Lower Upper

128 100

49 157.2 106.5 197.7

130 129.6 91.4 169.8

51 49.2 38.6 58.0

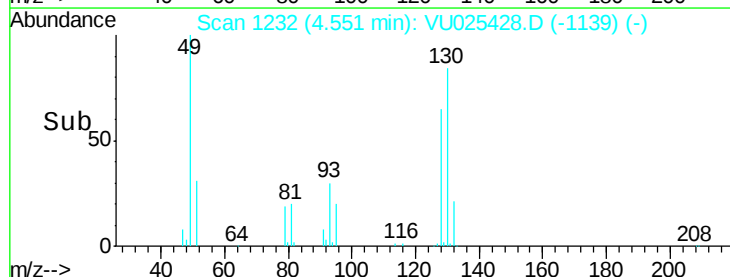
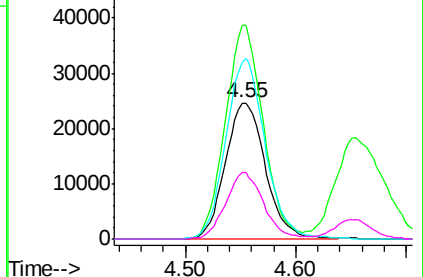


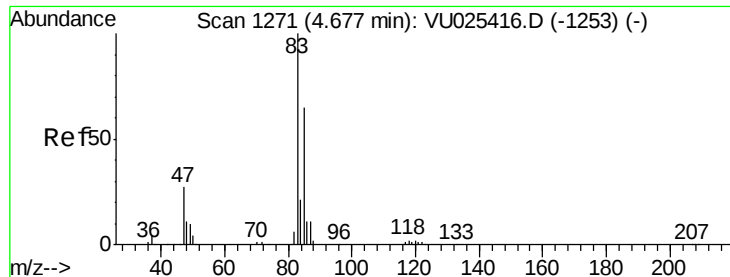
Abundance Ion 128.00 (127.70 to 128.70): VU025428.D (-1232) (-)

Ion 49.00 (48.70 to 49.70): VU025428.D (-1232) (-)

Ion 130.00 (129.70 to 130.70): VU025428.D (-1232) (-)

Ion 51.00 (50.70 to 51.70): VU025428.D (-1232) (-)





#25

Chloroform

Concen: 47.973 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

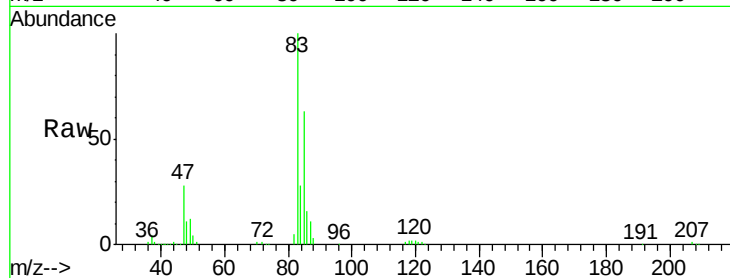
VSTD05057

Tgt Ion: 83 Resp: 228651

Ion Ratio Lower Upper

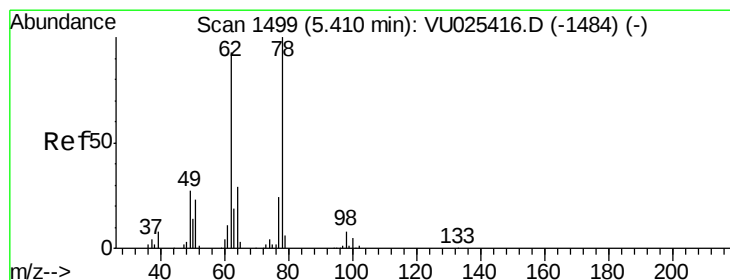
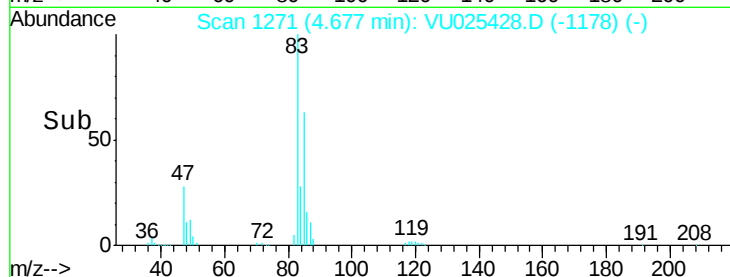
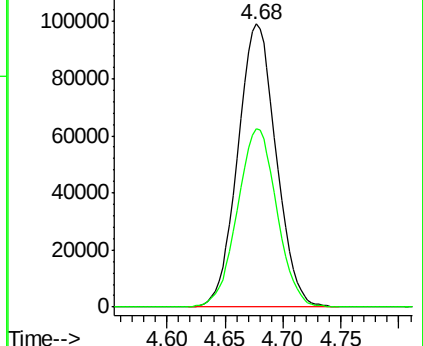
83 100

85 63.1 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 46.549 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU025428.D

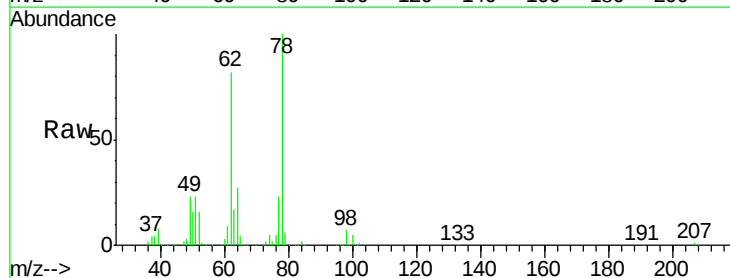
Acq: 16 Jul 2018 16:47

Tgt Ion: 62 Resp: 182398

Ion Ratio Lower Upper

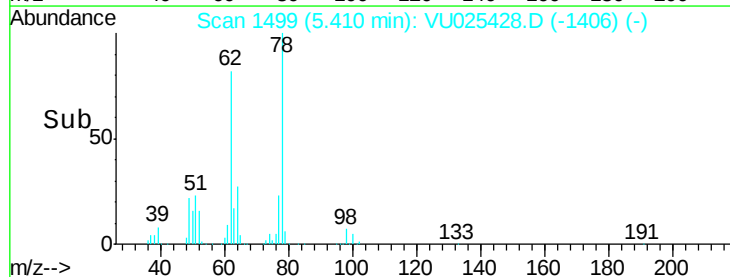
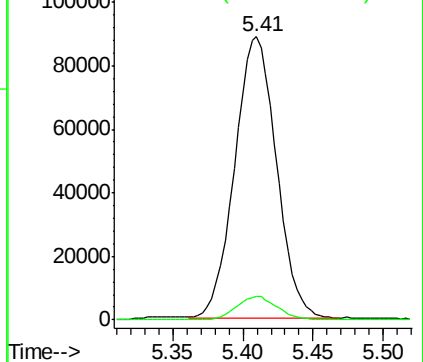
62 100

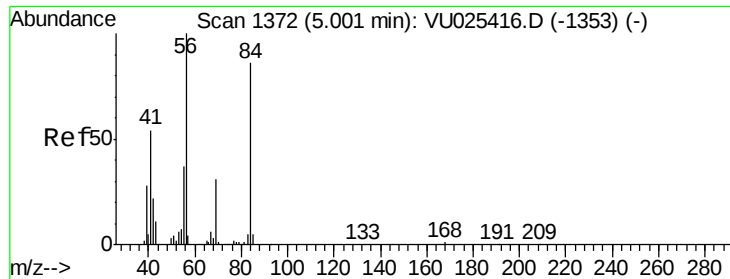
98 8.5 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

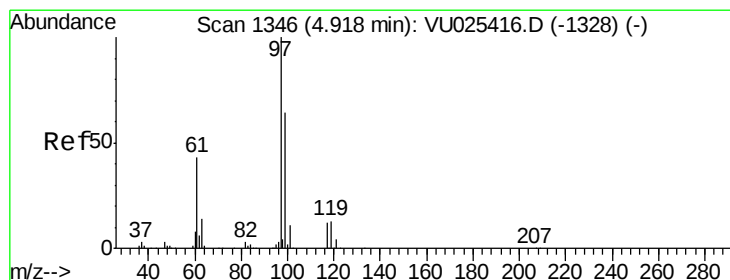
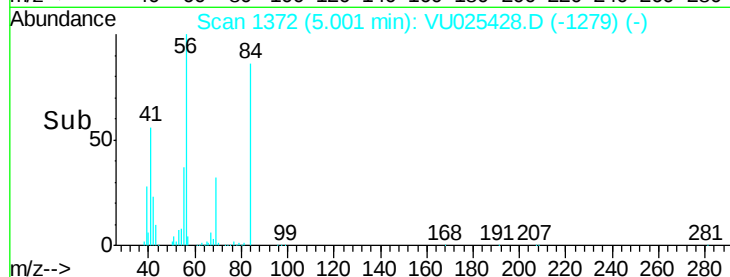
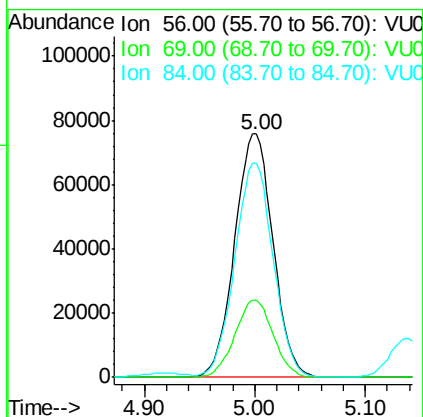
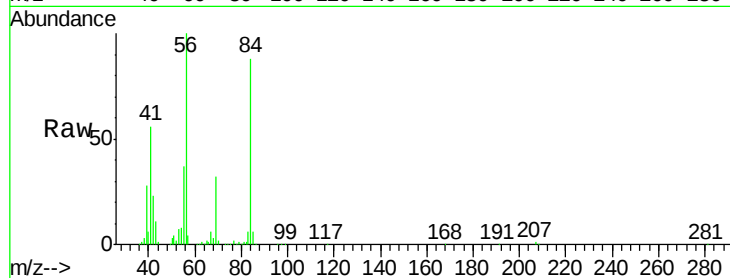




#29
Cyclohexane
Concen: 46.721 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

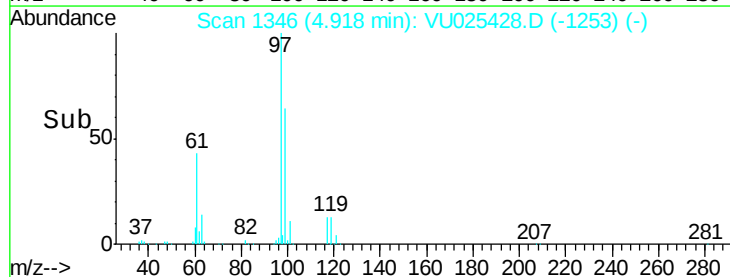
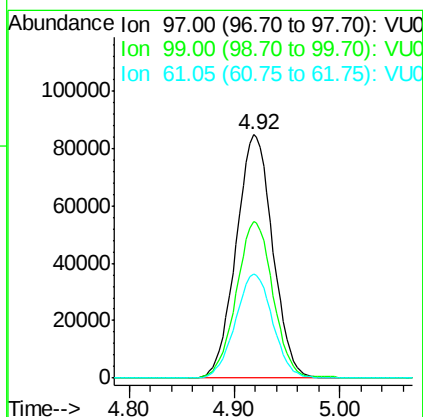
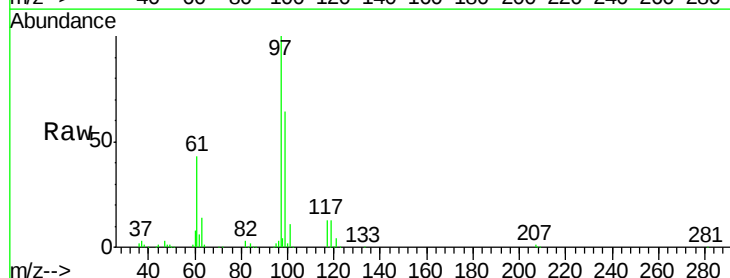
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

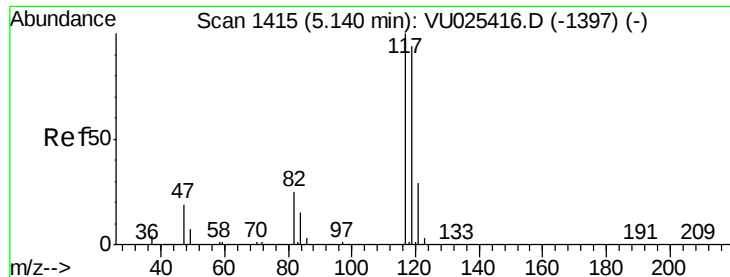
Tgt Ion: 56 Resp: 182383
Ion Ratio Lower Upper
56 100
69 31.8 24.8 37.2
84 88.6 70.0 105.0



#30
1,1,1-Trichloroethane
Concen: 47.589 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

Tgt Ion: 97 Resp: 204513
Ion Ratio Lower Upper
97 100
99 64.4 51.8 77.8
61 43.5 34.8 52.2

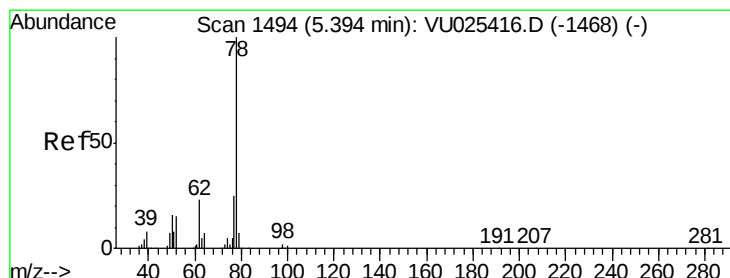
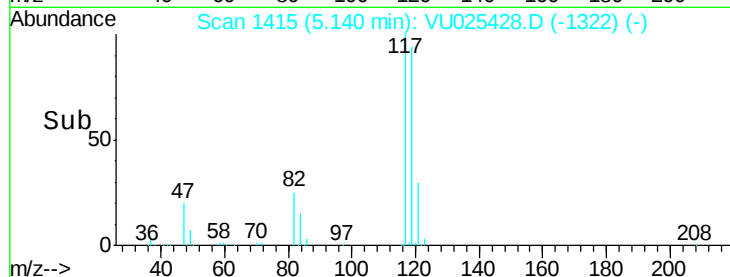
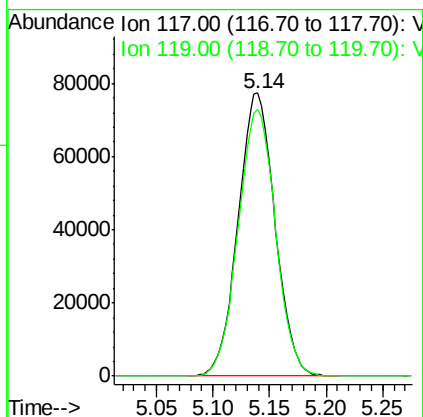
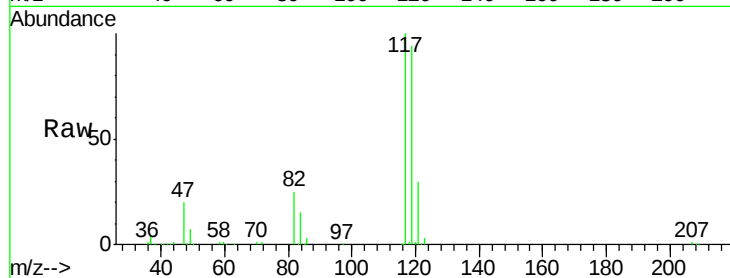




#31
Carbon tetrachloride
Concen: 46.480 ug/L
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

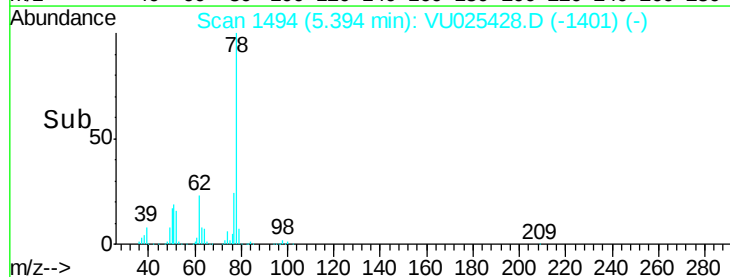
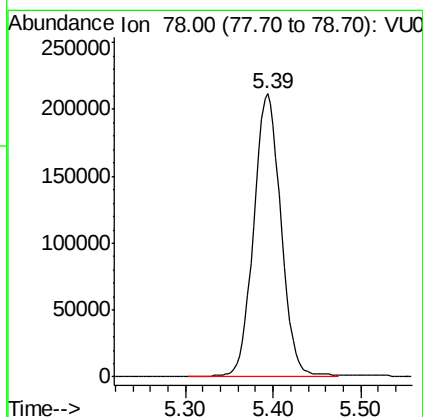
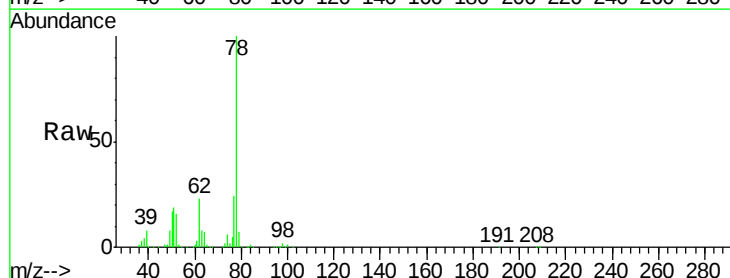
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

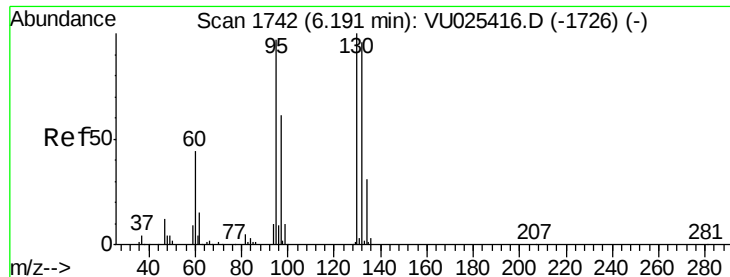
Tgt Ion:117 Resp: 175544
Ion Ratio Lower Upper
117 100
119 95.7 75.8 113.8



#33
Benzene
Concen: 47.665 ug/L
RT: 5.39 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

Tgt Ion: 78 Resp: 458922





#34

Trichloroethene

Concen: 46.645 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tgt Ion: 95 Resp: 120695

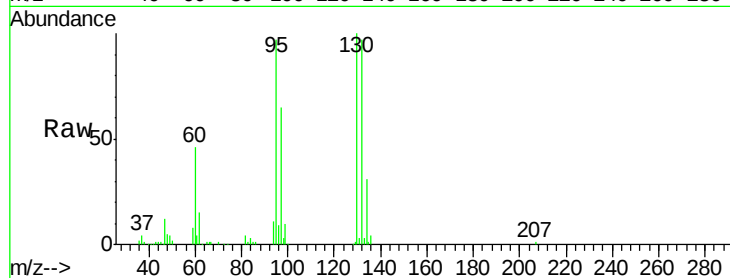
Ion Ratio Lower Upper

95 100

97 66.7 44.3 82.3

132 99.6 69.6 129.2

130 102.9 72.4 134.5

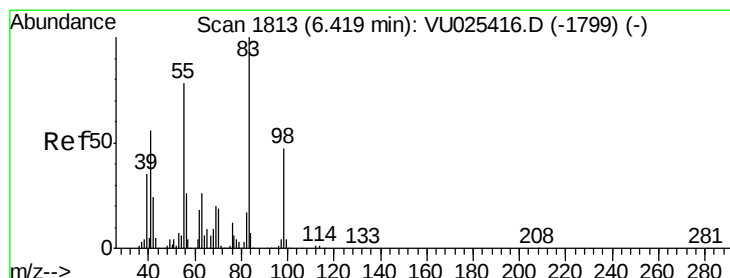
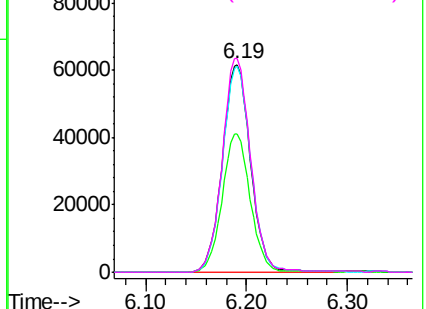
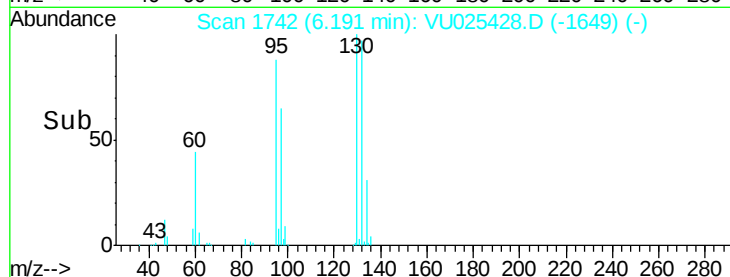


Abundance Ion 95.00 (94.70 to 95.70): VU025428.D (-1649) (-)

Ion 97.00 (96.70 to 97.70): VU025428.D (-1649) (-)

Ion 132.00 (131.70 to 132.70): VU025428.D (-1649) (-)

Ion 130.00 (129.70 to 130.70): VU025428.D (-1649) (-)



#35

Methylcyclohexane

Concen: 45.996 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

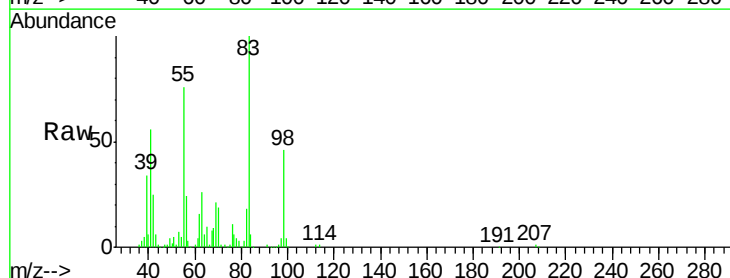
Tgt Ion: 83 Resp: 190353

Ion Ratio Lower Upper

83 100

55 77.3 60.6 90.8

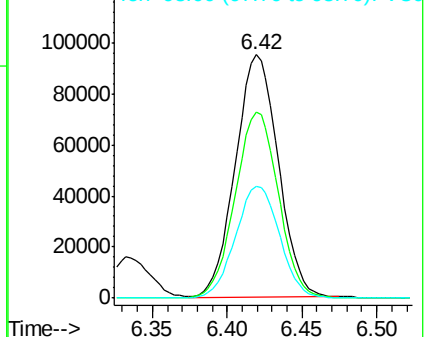
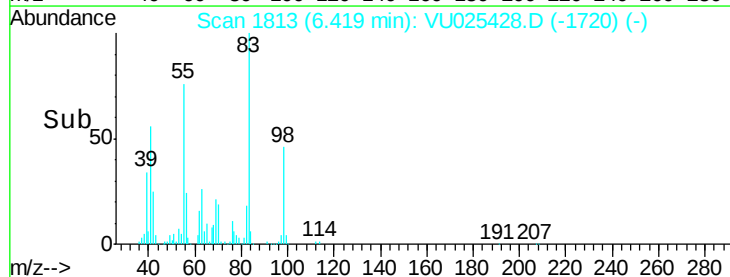
98 47.3 37.6 56.4

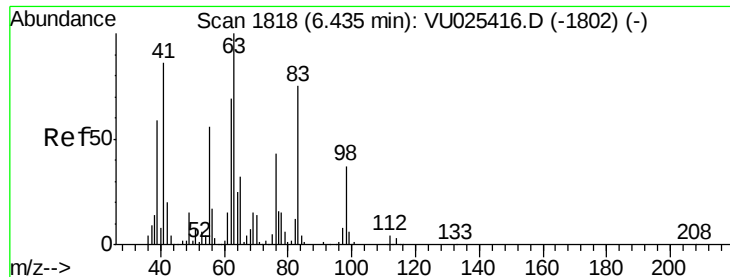


Abundance Ion 83.00 (82.70 to 83.70): VU025428.D (-1720) (-)

Ion 55.00 (54.70 to 55.70): VU025428.D (-1720) (-)

Ion 98.00 (97.70 to 98.70): VU025428.D (-1720) (-)

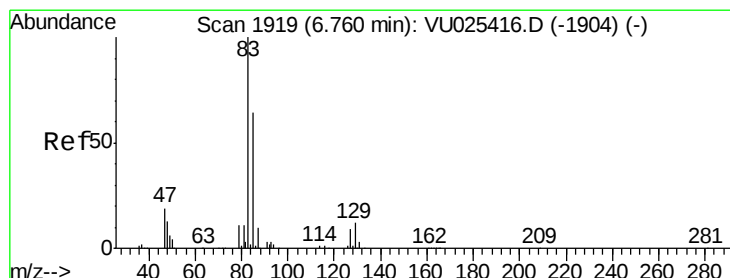
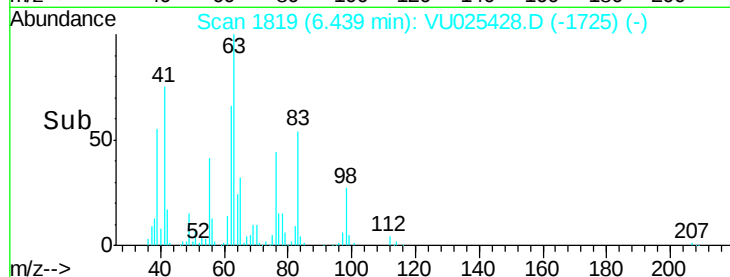
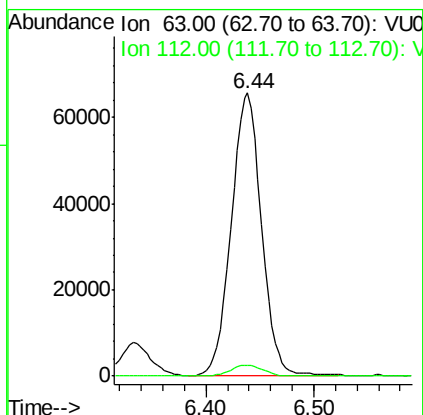
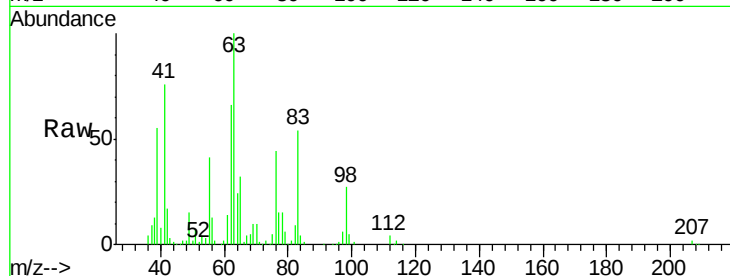




#37
 1,2-Dichloropropane
 Concen: 48.436 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025428.D
 Acq: 16 Jul 2018 16:47

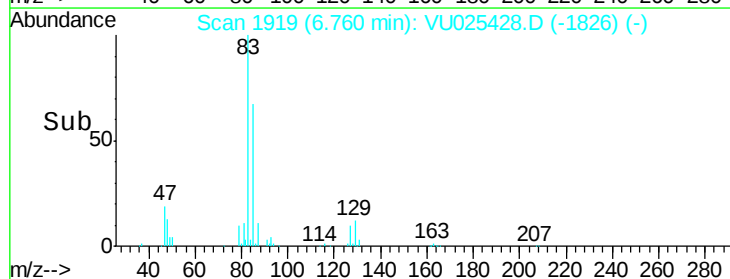
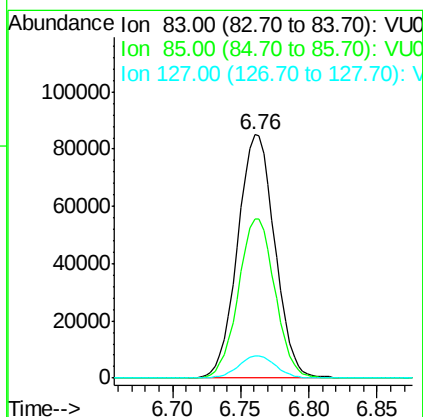
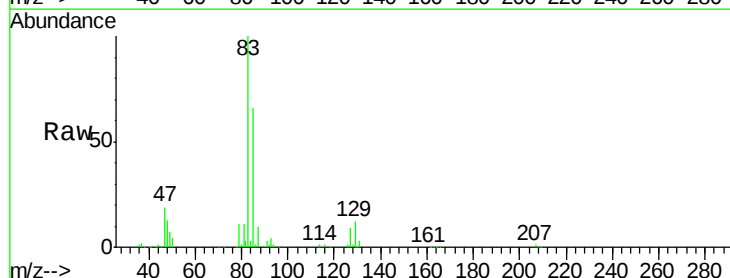
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

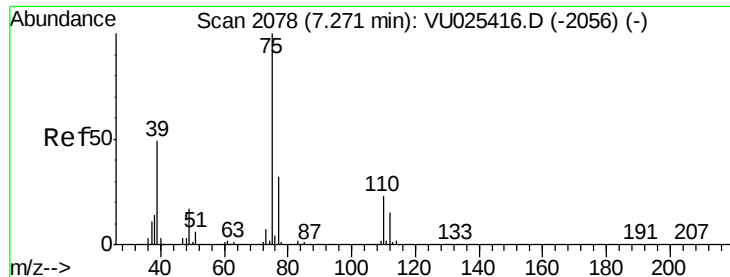
Tgt Ion: 63 Resp: 128529
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#38
 Bromodichloromethane
 Concen: 47.057 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025428.D
 Acq: 16 Jul 2018 16:47

Tgt Ion: 83 Resp: 161213
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.0 83.6
 127 9.3 7.4 11.0





#39

cis-1,3-Dichloropropene

Concen: 47.469 ug/L

RT: 7.27 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

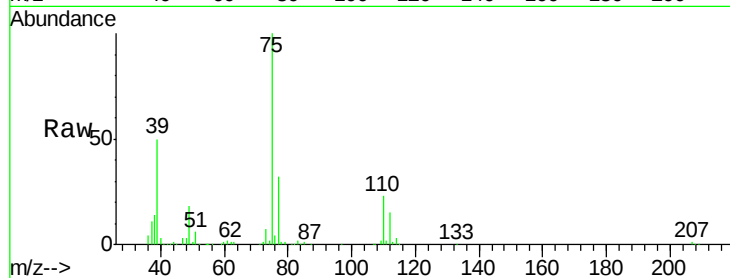
VSTD05057

Tgt Ion: 75 Resp: 192794

Ion Ratio Lower Upper

75 100

77 31.9 22.7 42.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.27

120000

100000

80000

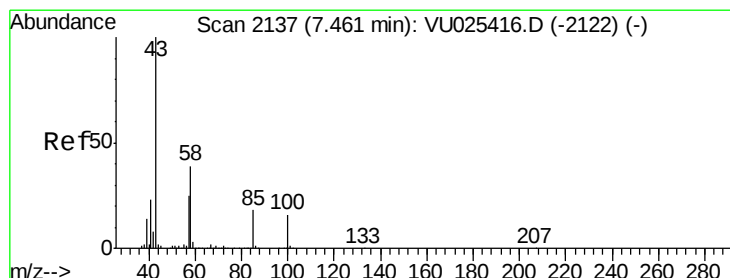
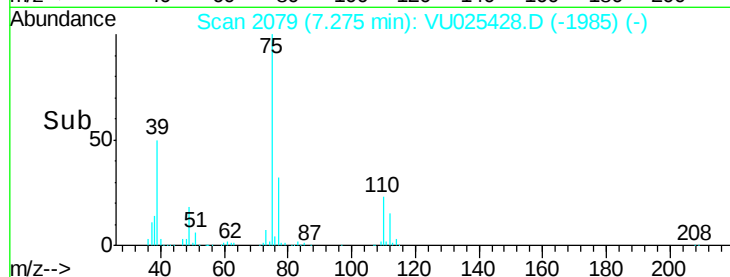
60000

40000

20000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 102.601 ug/L

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

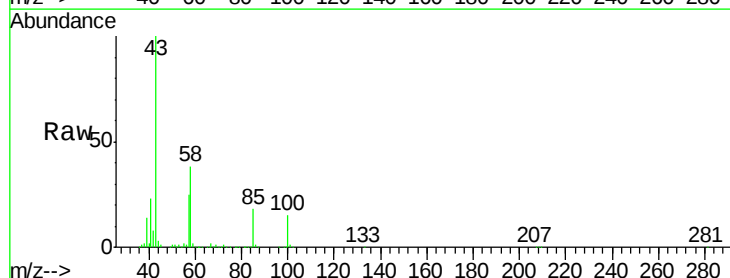
Tgt Ion: 43 Resp: 424859

Ion Ratio Lower Upper

43 100

58 38.6 31.0 46.4

100 15.1 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

7.46

300000

250000

200000

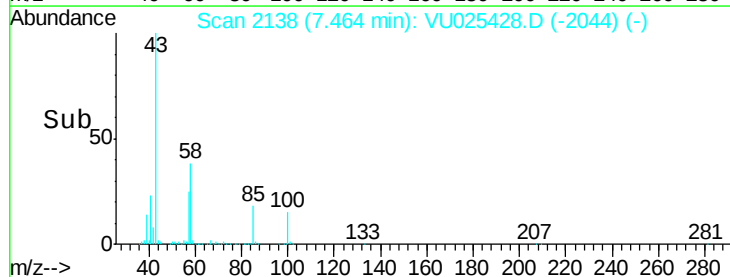
150000

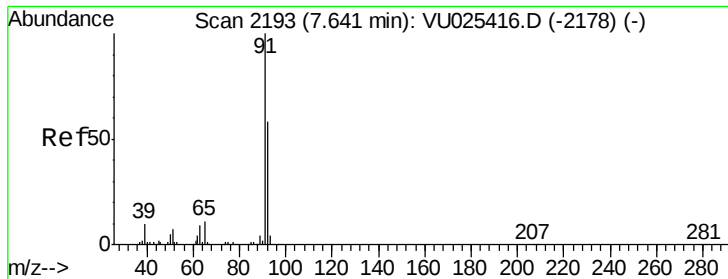
100000

50000

0

Time-->





#42

Toluene

Concen: 46.945 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

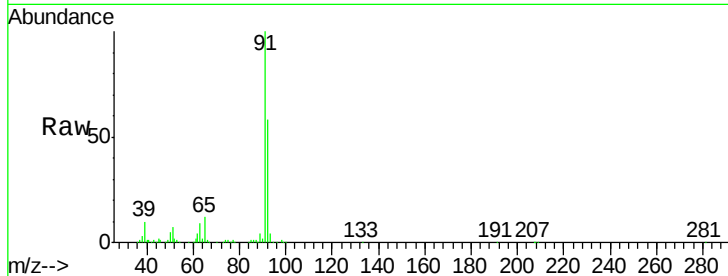
VSTD05057

Tgt Ion: 91 Resp: 488801

Ion Ratio Lower Upper

91 100

92 58.5 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

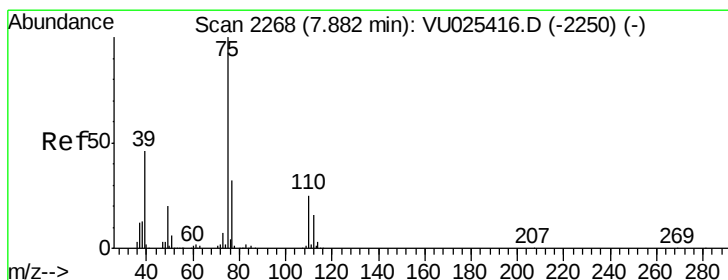
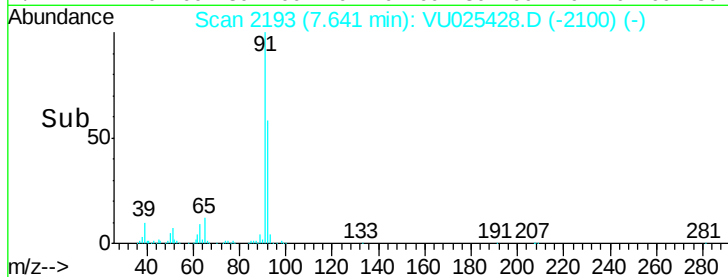
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.038 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025428.D

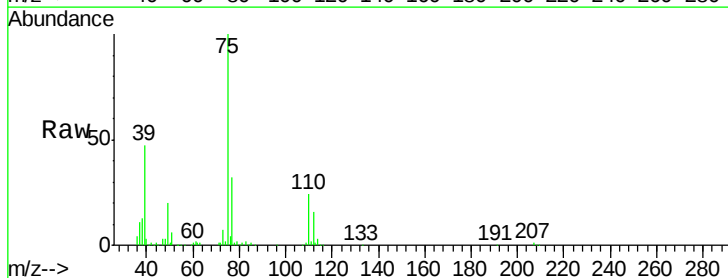
Acq: 16 Jul 2018 16:47

Tgt Ion: 75 Resp: 180399

Ion Ratio Lower Upper

75 100

77 31.6 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

120000

100000

80000

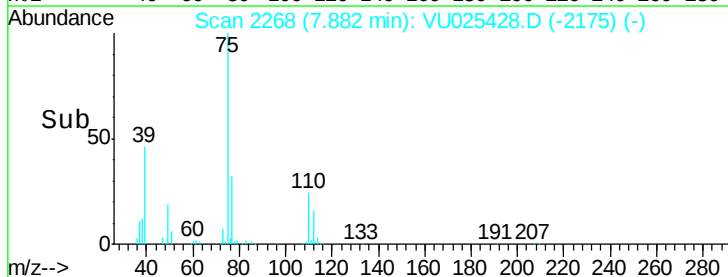
60000

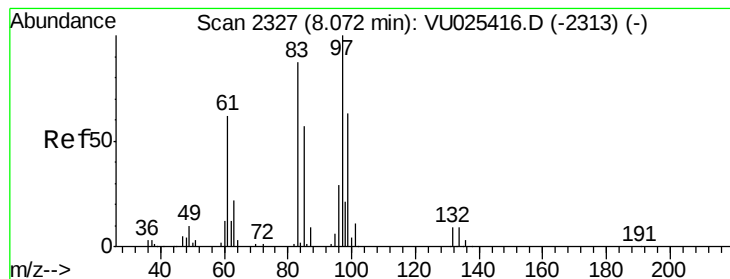
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 47.893 ug/L

RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tgt Ion: 97 Resp: 122189

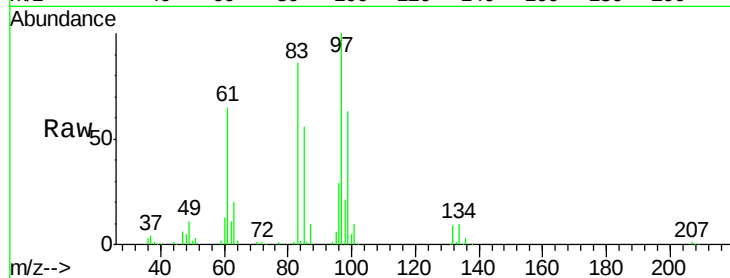
Ion Ratio Lower Upper

97 100

99 62.5 44.2 82.2

83 85.9 61.0 113.2

85 55.9 40.1 74.5

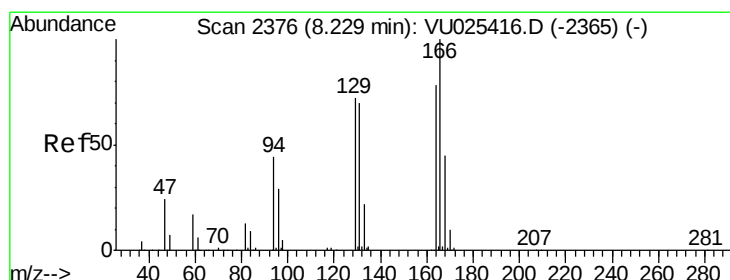
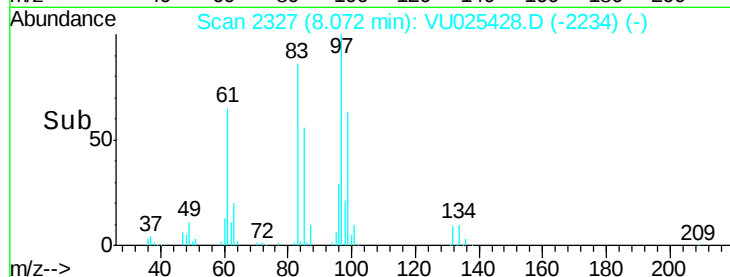
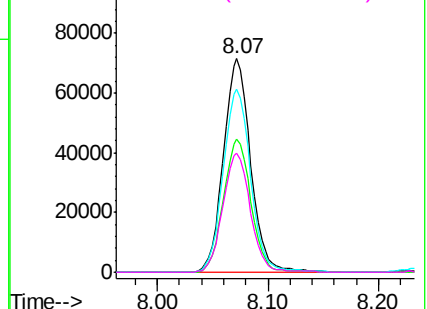


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 47.366 ug/L

RT: 8.23 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Tgt Ion: 164 Resp: 101572

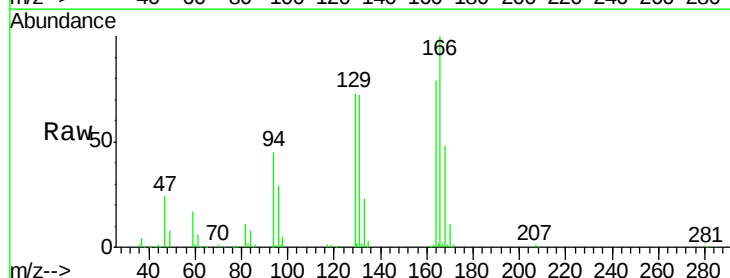
Ion Ratio Lower Upper

164 100

129 92.9 64.7 120.1

131 91.0 63.1 117.3

166 127.1 89.7 166.5

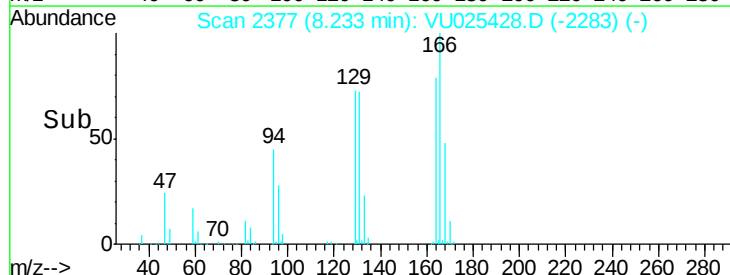
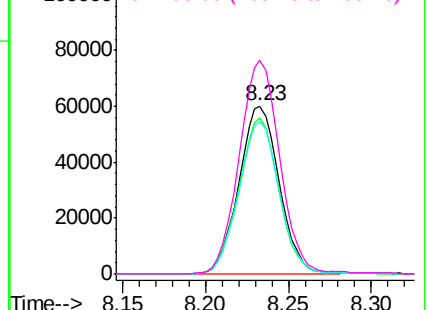


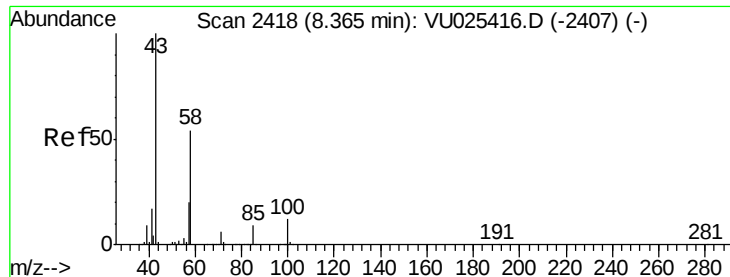
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

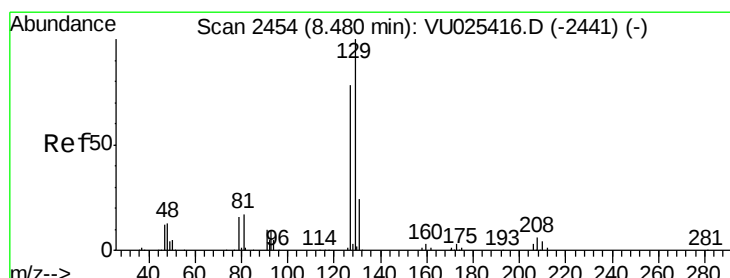
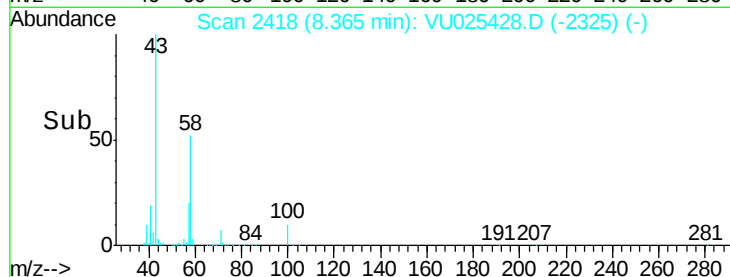
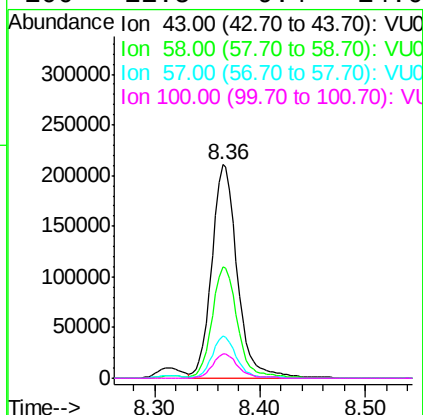
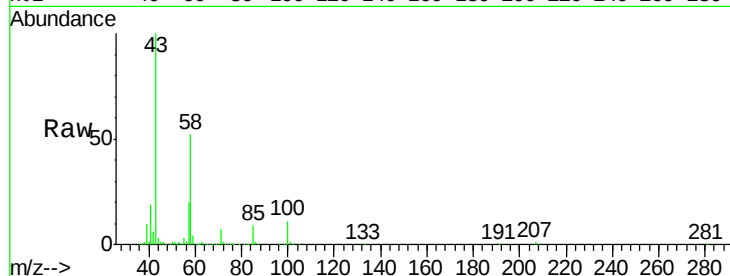




#48
2-Hexanone
Concen: 98.612 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

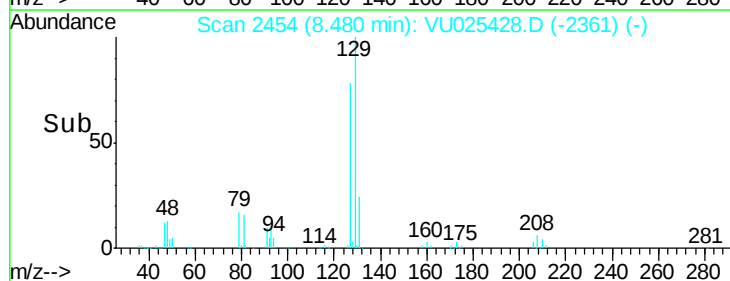
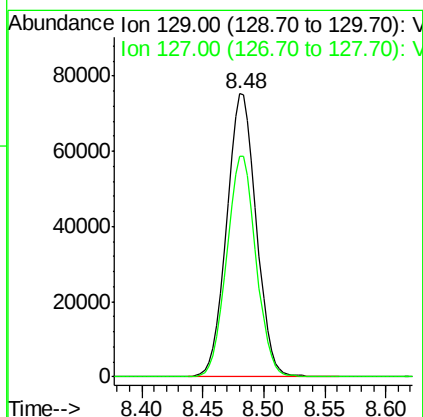
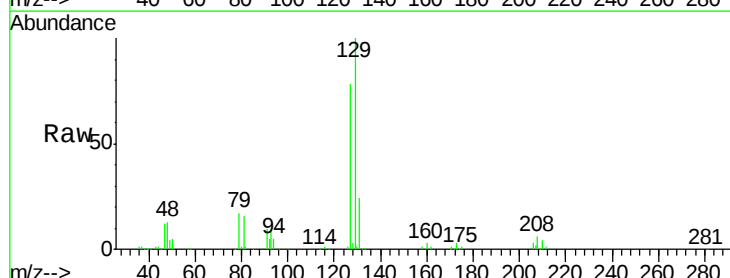
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

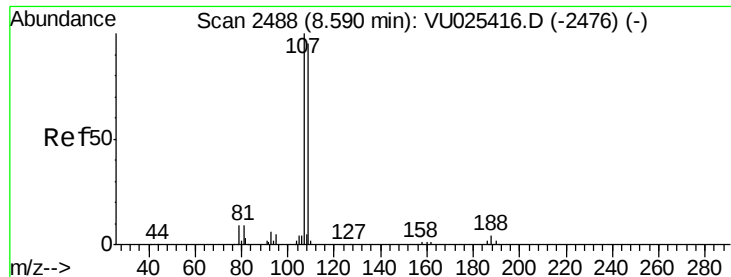
Tgt Ion:	43	Resp:	352212
Ion	Ratio	Lower	Upper
43	100		
58	52.8	43.0	64.4
57	19.0	15.8	23.6
100	11.5	9.4	14.0



#49
Dibromochloromethane
Concen: 46.525 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

Tgt Ion:	129	Resp:	127843
Ion	Ratio	Lower	Upper
129	100		
127	78.1	54.4	101.0

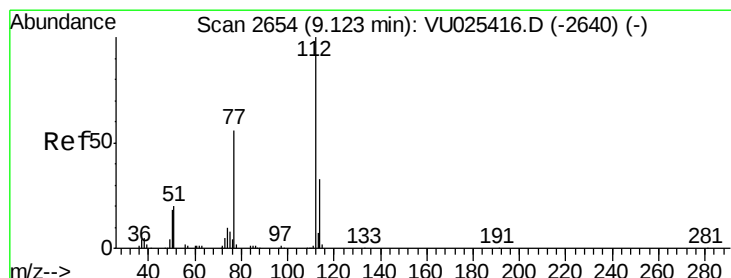
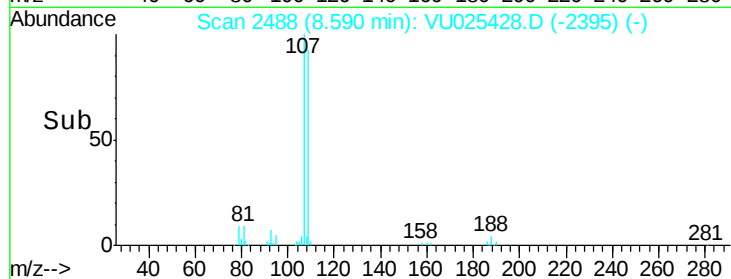
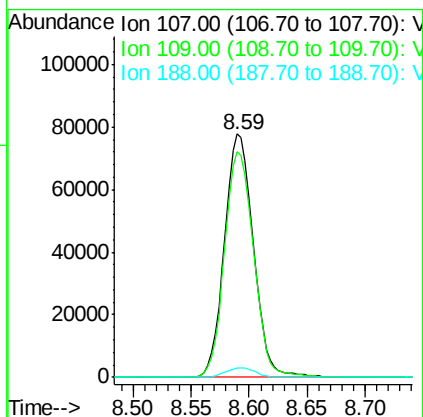
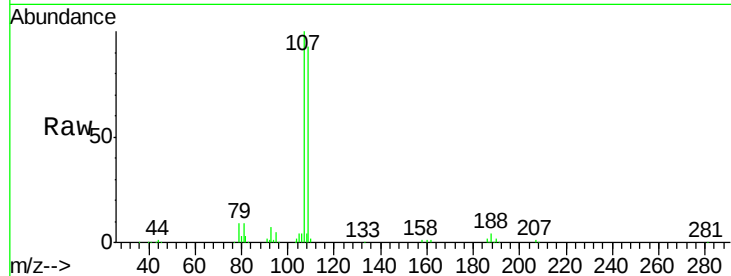




#50
1,2-Dibromoethane
Concen: 48.400 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

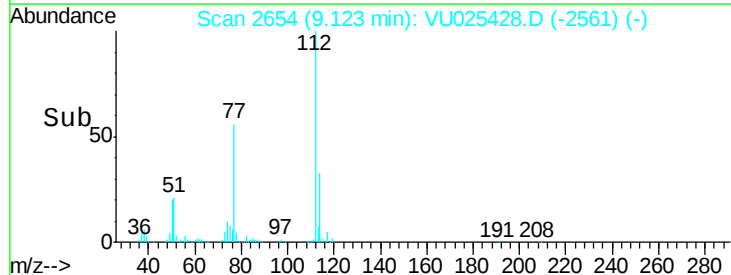
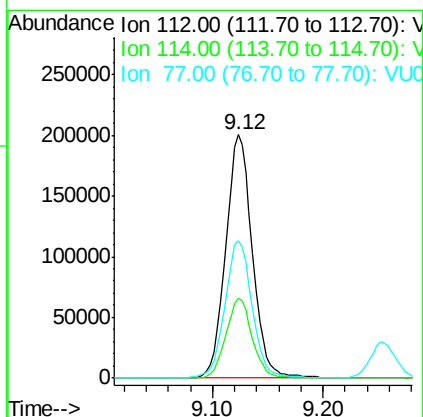
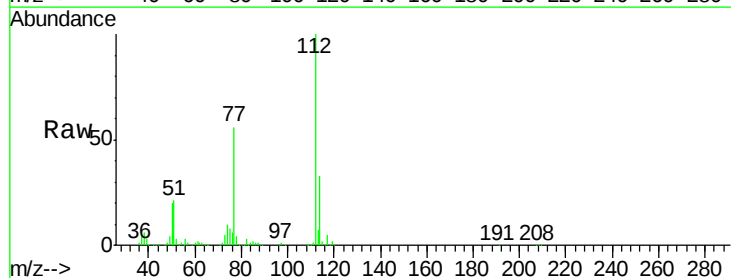
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

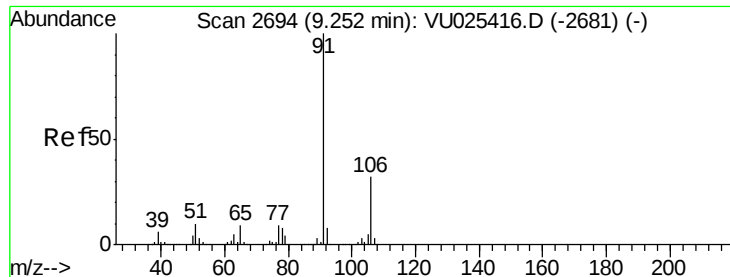
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.6	66.8	124.2
188	3.9	3.6	5.4



#51
Chlorobenzene
Concen: 47.026 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025428.D
Acq: 16 Jul 2018 16:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.8	42.4
77	56.4	45.5	68.3





#52

Ethylbenzene

Concen: 47.201 ug/L

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

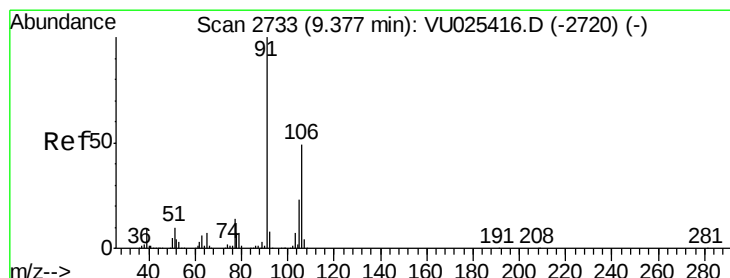
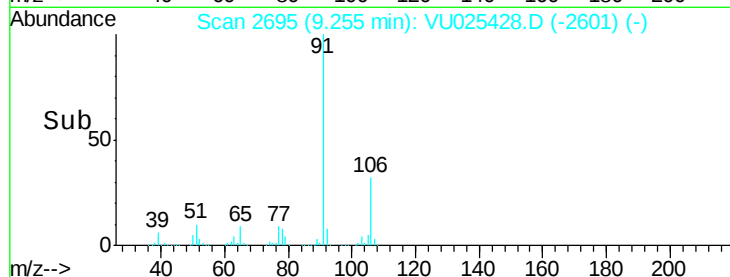
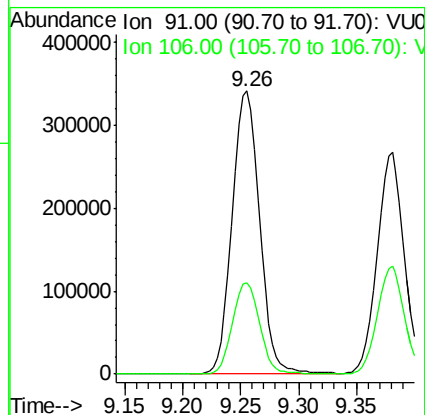
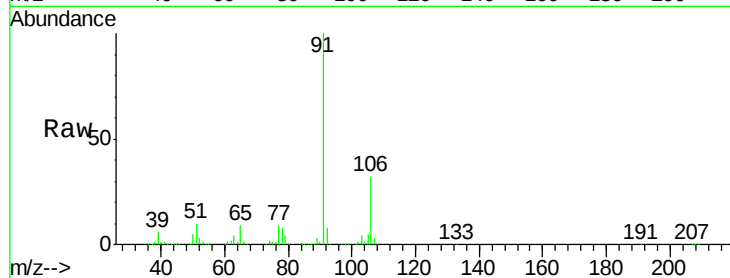
VSTD05057

Tgt Ion: 91 Resp: 559277

Ion Ratio Lower Upper

91 100

106 32.5 22.1 41.1



#53

m,p-Xylene

Concen: 47.012 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU025428.D

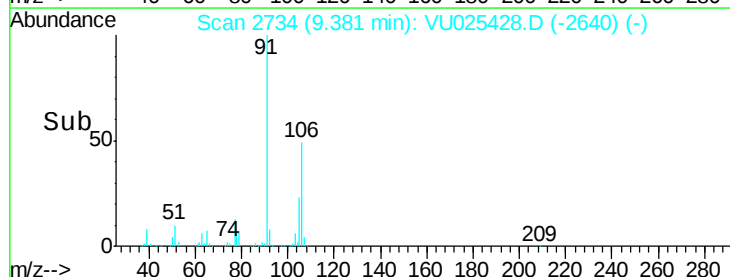
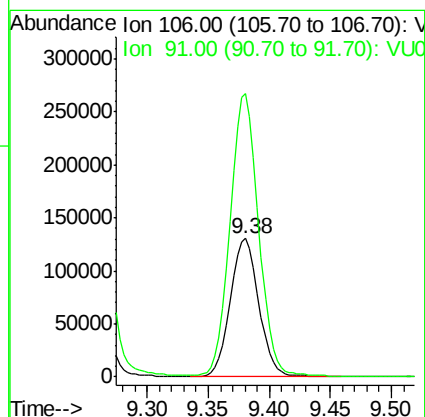
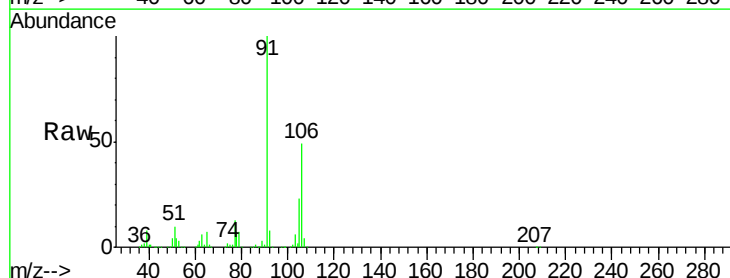
Acq: 16 Jul 2018 16:47

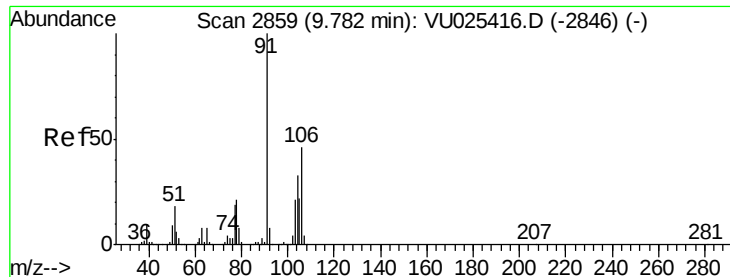
Tgt Ion: 106 Resp: 213658

Ion Ratio Lower Upper

106 100

91 204.3 141.8 263.4





#54

o-xylene

Concen: 47.887 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

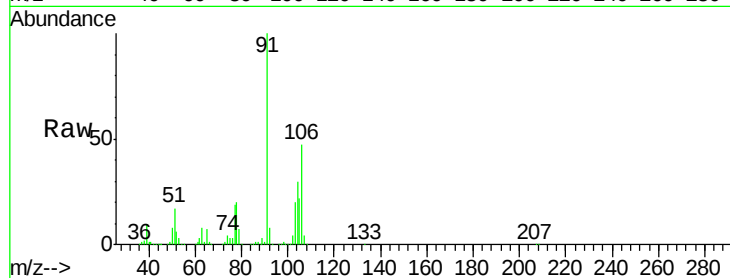
VSTD05057

Tgt Ion:106 Resp: 220526

Ion Ratio Lower Upper

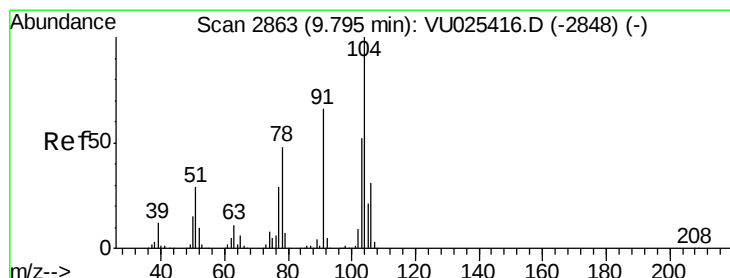
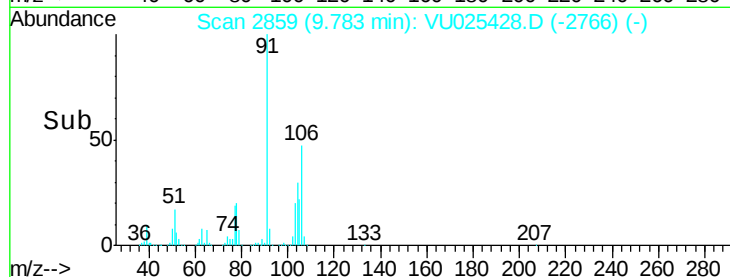
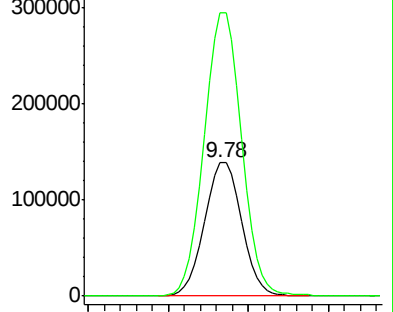
106 100

91 212.2 151.3 281.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.109 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU025428.D

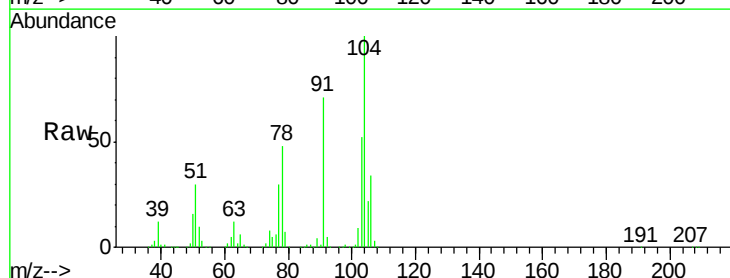
Acq: 16 Jul 2018 16:47

Tgt Ion:104 Resp: 362530

Ion Ratio Lower Upper

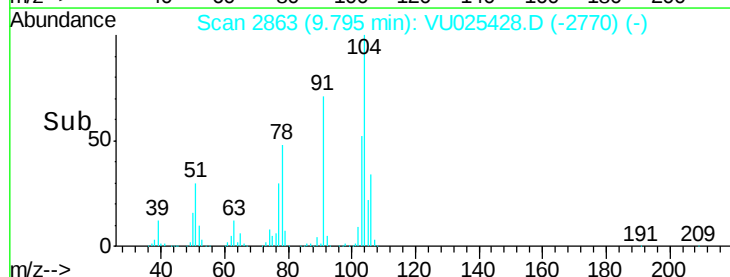
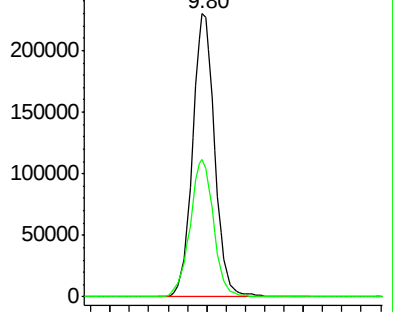
104 100

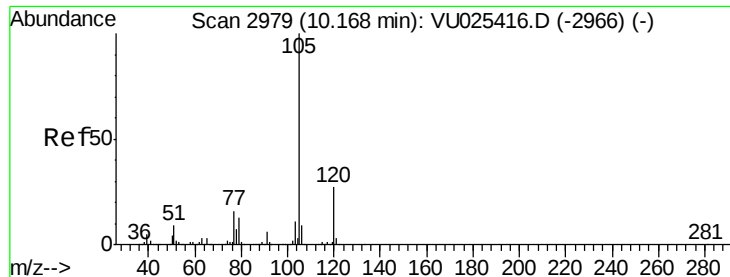
78 48.5 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.960 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

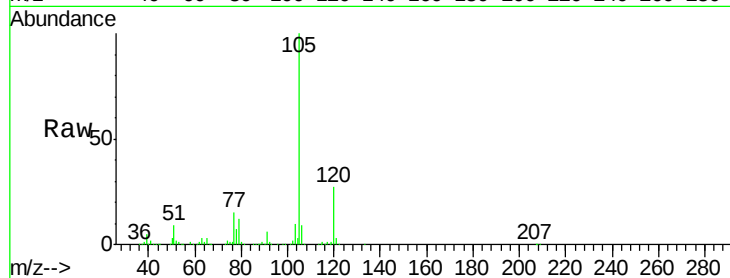
Tgt Ion: 105 Resp: 571006

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

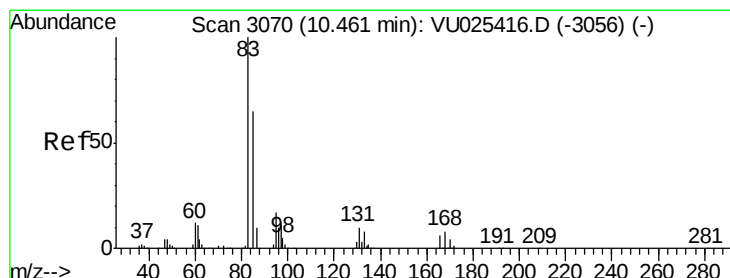
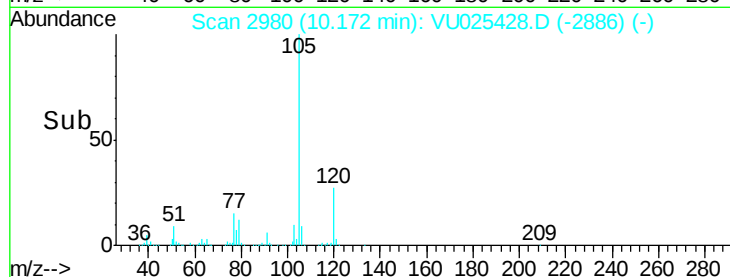
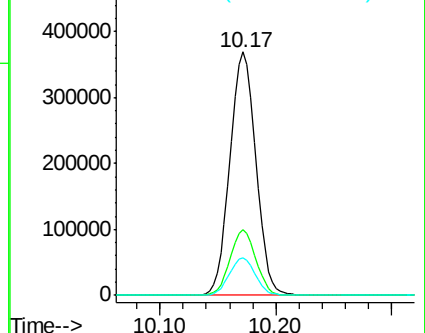
77 15.4 12.6 19.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 47.832 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

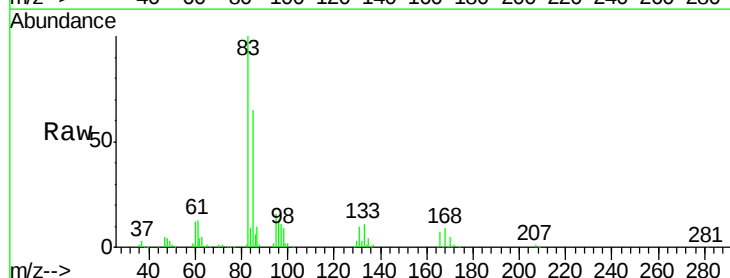
Tgt Ion: 83 Resp: 216225

Ion Ratio Lower Upper

83 100

85 65.3 45.9 85.3

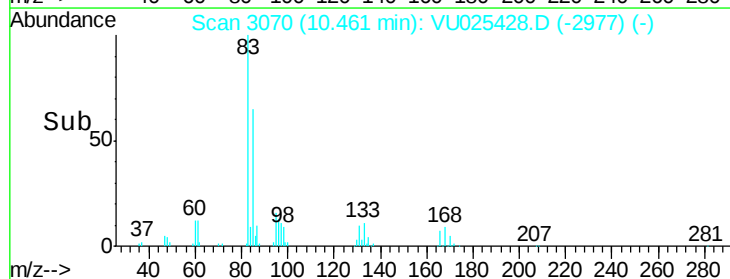
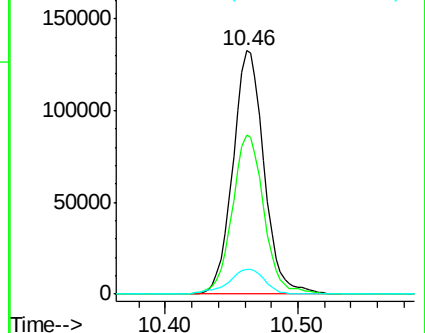
131 9.9 8.6 13.0

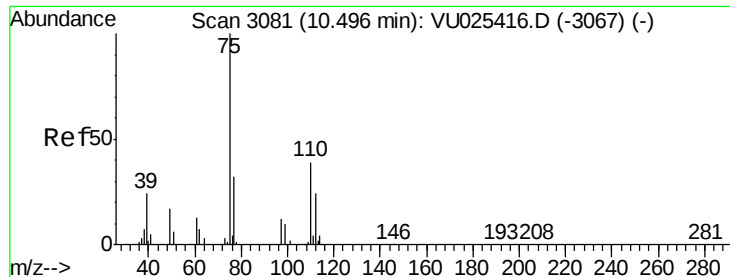


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.742 ug/L

RT: 10.50 min Scan# 3082

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

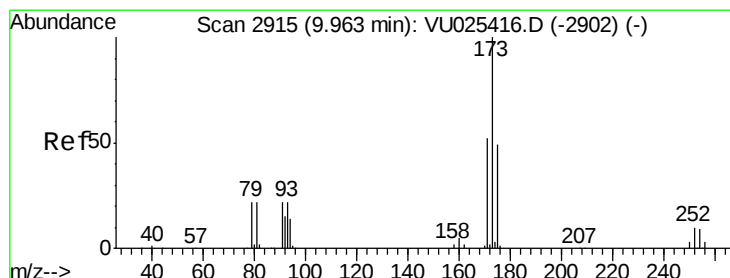
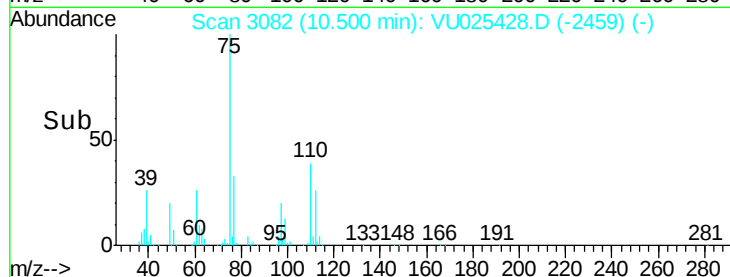
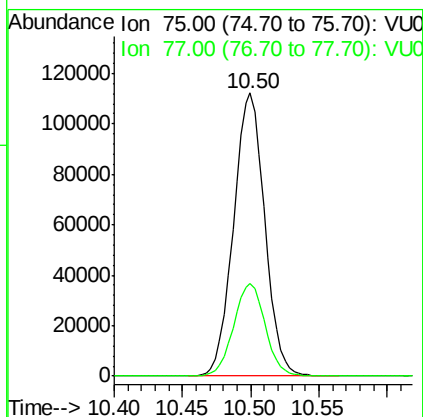
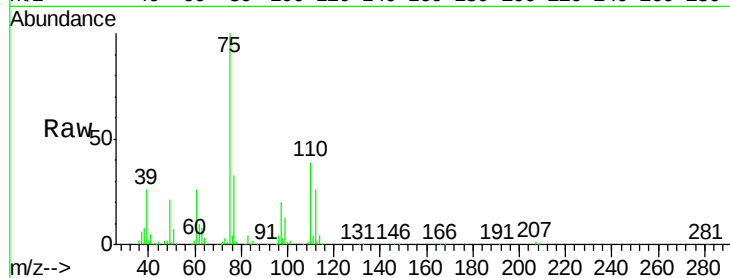
VSTD05057

Tgt Ion: 75 Resp: 178144

Ion Ratio Lower Upper

75 100

77 32.9 25.7 38.5



#61

Bromoform

Concen: 45.548 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

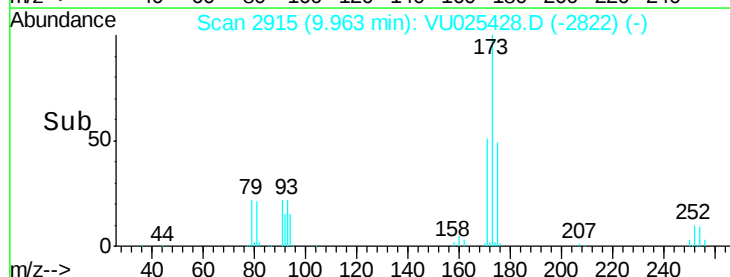
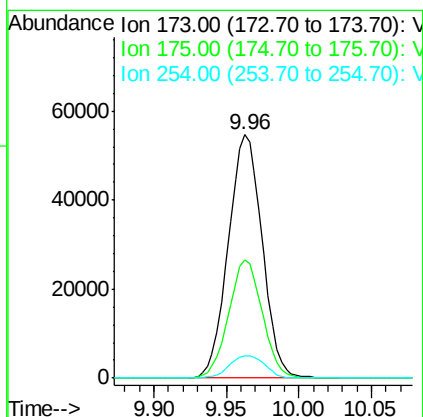
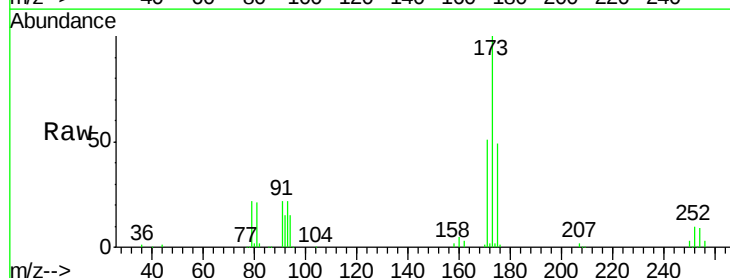
Tgt Ion: 173 Resp: 88512

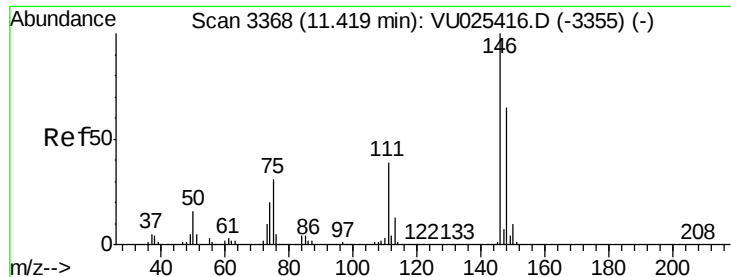
Ion Ratio Lower Upper

173 100

175 48.2 38.2 57.2

254 9.6 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 46.611 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

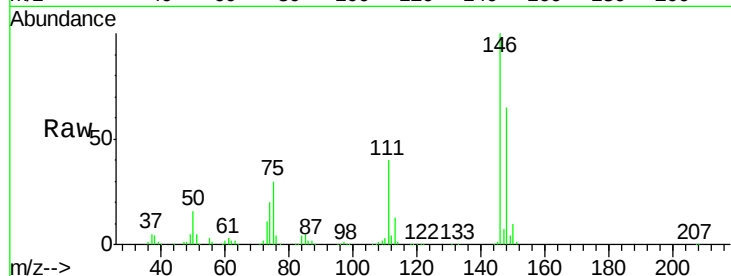
Tgt Ion:146 Resp: 260027

Ion Ratio Lower Upper

146 100

111 40.1 27.4 51.0

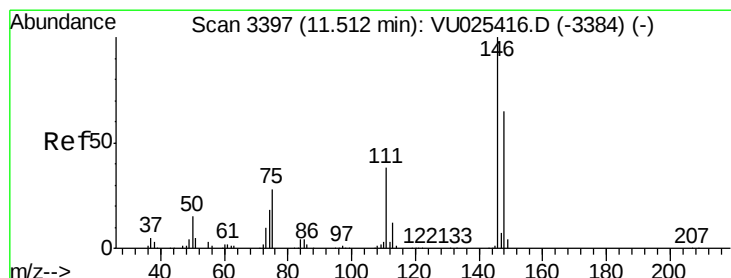
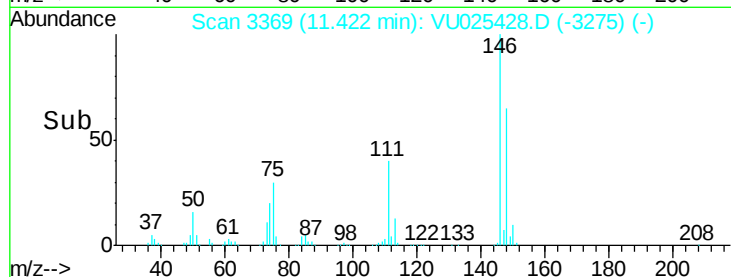
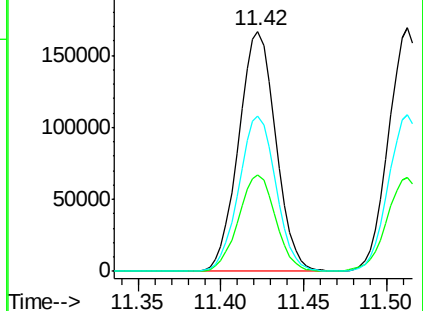
148 64.9 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.156 ug/L

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

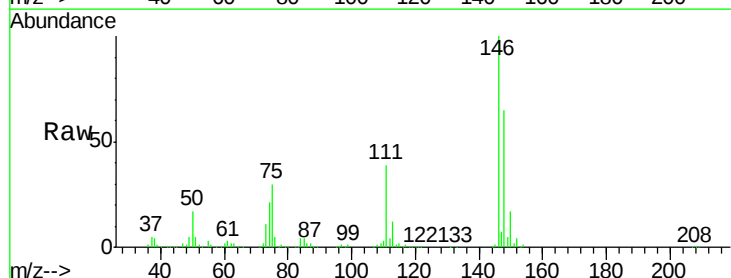
Tgt Ion:146 Resp: 258314

Ion Ratio Lower Upper

146 100

111 38.6 26.6 49.4

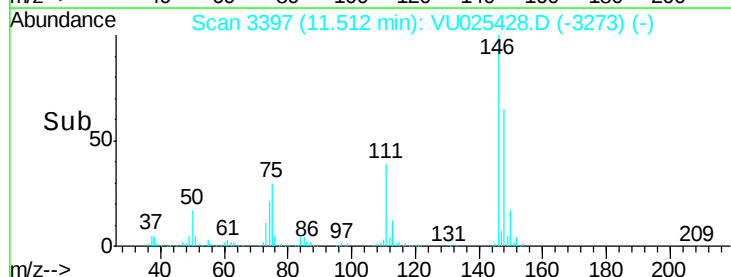
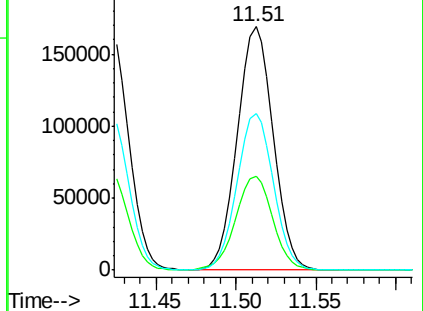
148 64.5 45.6 84.6

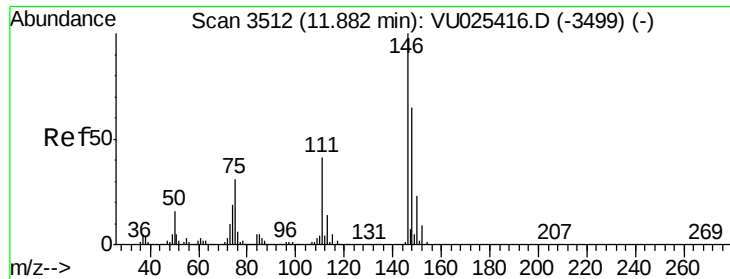


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

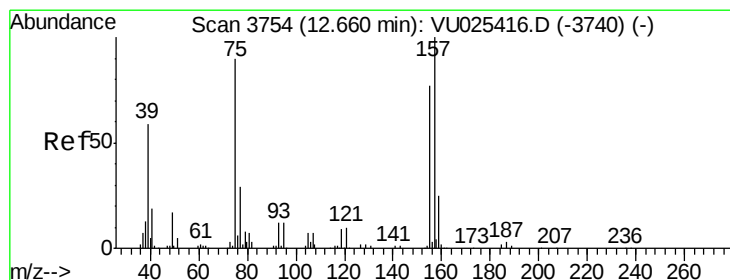
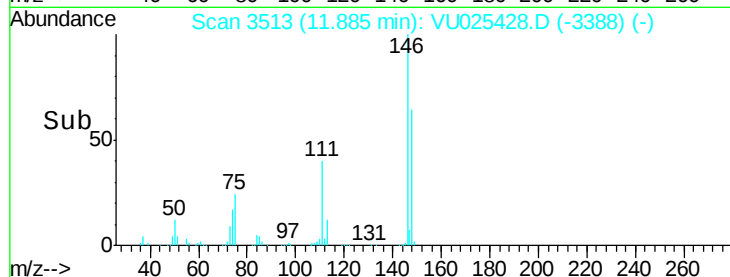
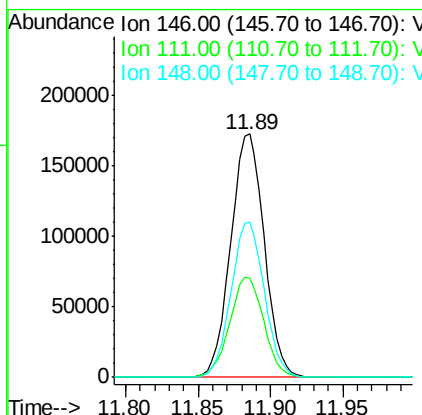
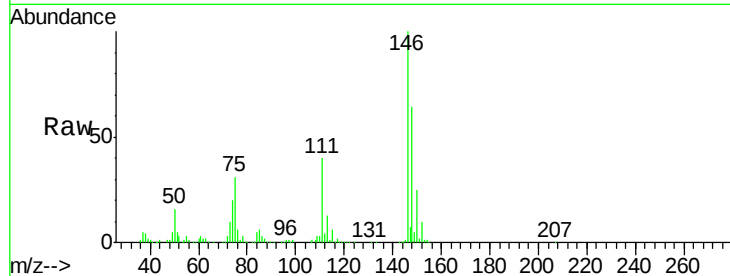




#65
 1,2-Dichlorobenzene
 Concen: 46.919 ug/L
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU025428.D
 Acq: 16 Jul 2018 16:47

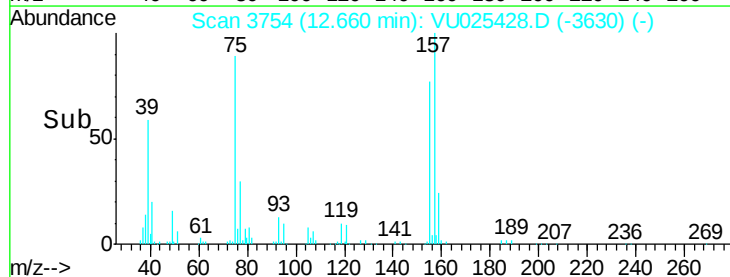
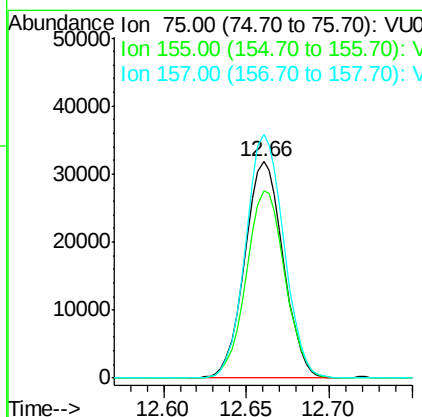
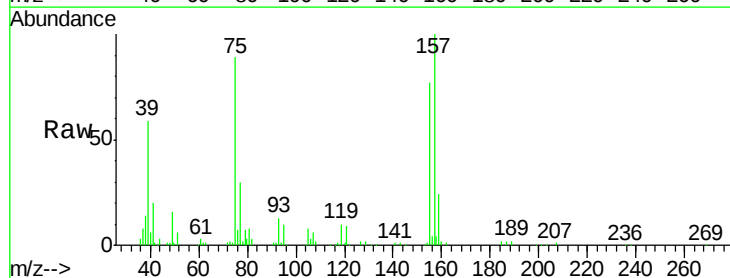
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

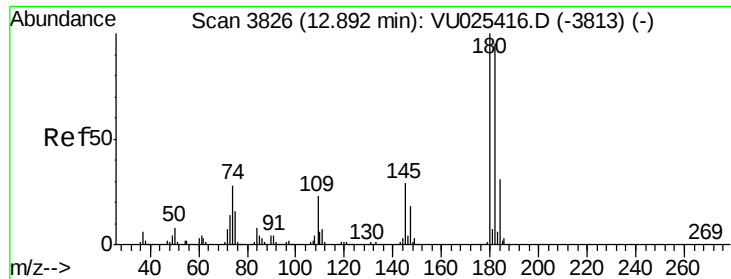
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	33.0	49.4
148	63.8	51.8	77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.146 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025428.D
 Acq: 16 Jul 2018 16:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.3	68.7	103.1
157	112.6	89.0	133.4

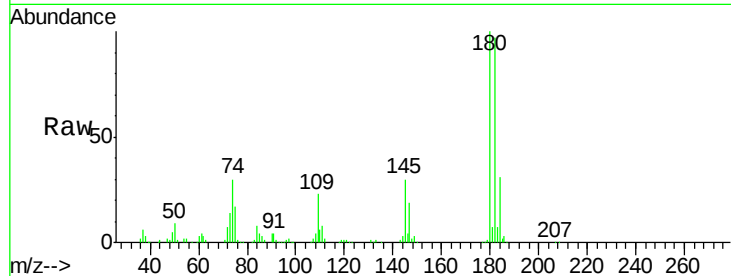




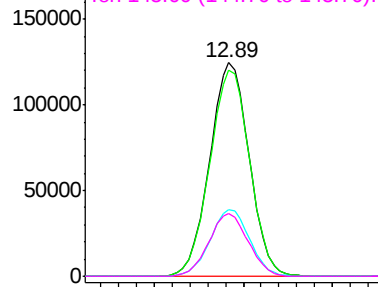
#67
 1,3,5-Trichlorobenzene
 Concen: 46.229 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU025428.D
 Acq: 16 Jul 2018 16:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

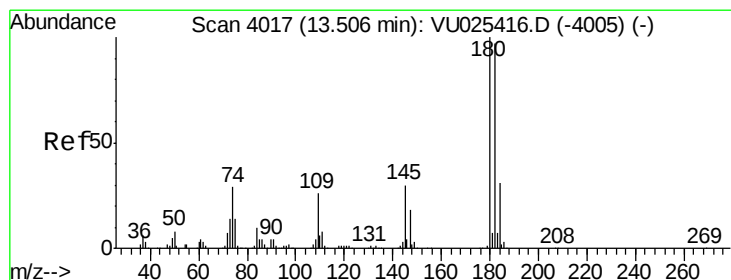
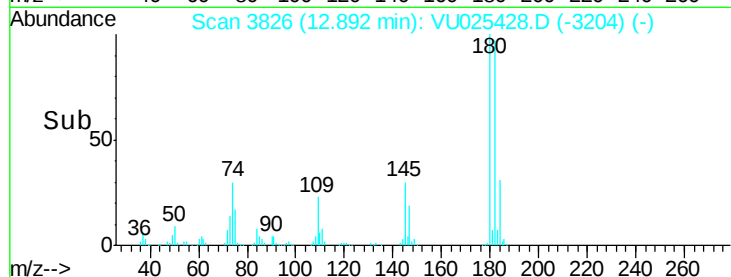
Tgt Ion:	180	Resp:	192856
Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.5	114.7
184	31.2	24.6	36.8
145	29.2	23.3	34.9



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

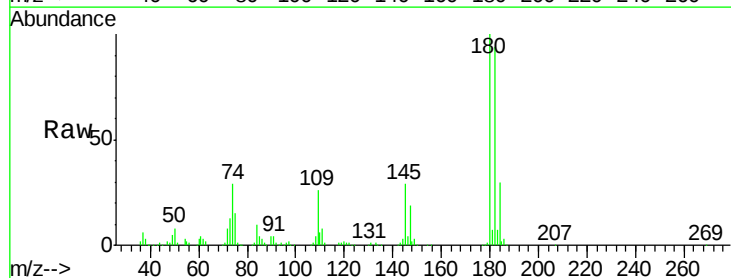


Time-->

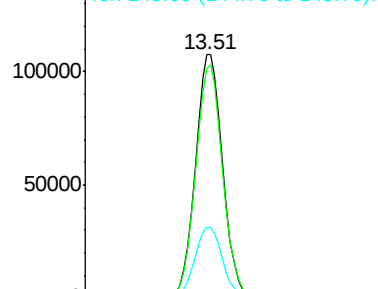


#68
 1,2,4-trichlorobenzene
 Concen: 46.603 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025428.D
 Acq: 16 Jul 2018 16:47

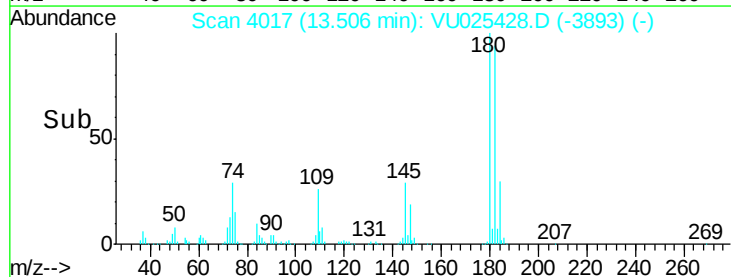
Tgt Ion:	180	Resp:	168143
Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.0	115.6
145	29.7	24.2	36.2

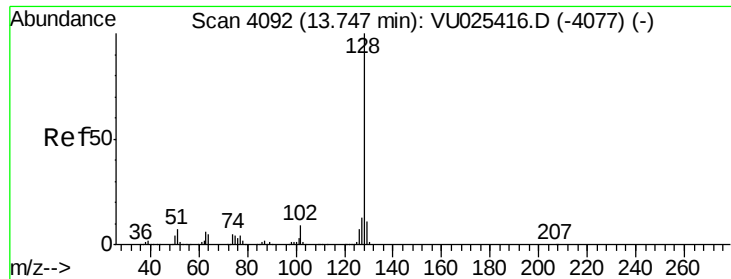


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



Time-->





#69

Naphthalene

Concen: 48.874 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

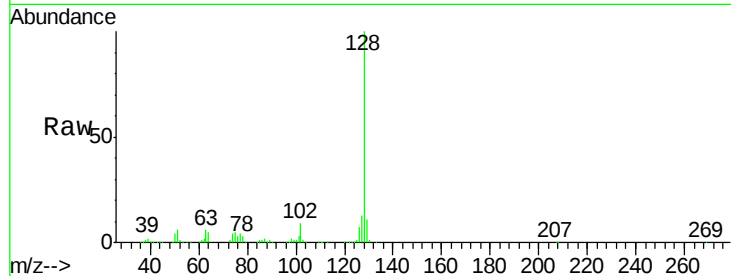
Tgt Ion:128 Resp: 614386

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

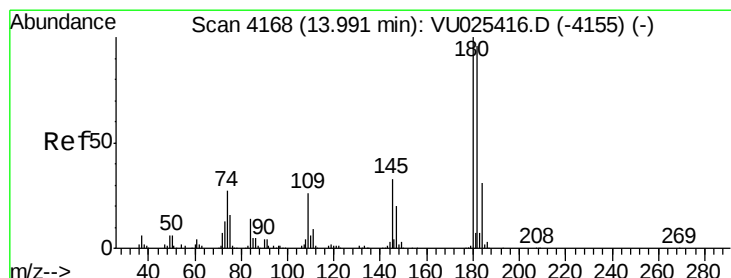
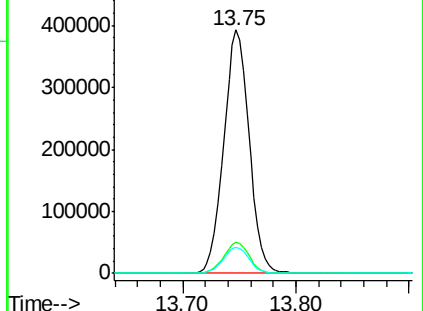
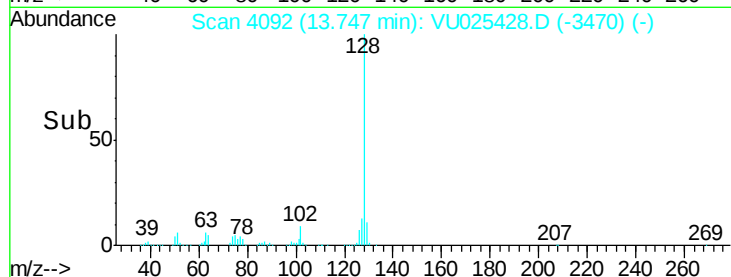
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 46.923 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025428.D

Acq: 16 Jul 2018 16:47

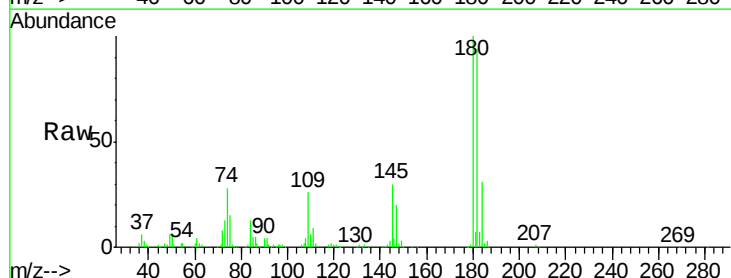
Tgt Ion:180 Resp: 181954

Ion Ratio Lower Upper

180 100

182 96.1 76.2 114.4

145 31.5 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

