

Data File : VU032040.D
Acq On : 15 May 2019 19:19
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Quant Time: May 16 04:30:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis
QLast Update : Thu May 16 04:24:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1118458	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	1110118	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	497367	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	386649	39.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.78%
7) Chloroethane-d5	1.67	69	322017	40.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.04%
11) 1,1-Dichloroethene-d2	2.27	63	723902	41.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.30%
21) 2-Butanone-d5	4.17	46	669277	97.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.38%
24) Chloroform-d	4.64	84	726595	44.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.46%
26) 1,2-Dichloroethane-d4	5.30	65	442858	42.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.60%
32) Benzene-d6	5.33	84	1483420	46.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.32%
36) 1,2-Dichloropropane-d6	6.32	67	482385	45.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.98%
41) Toluene-d8	7.56	98	1340803	46.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.14%
43) trans-1,3-Dichloropropene-	7.85	79	214227	45.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.58%
47) 2-Hexanone-d5	8.31	63	429760	99.94	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.94%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	726342	46.28	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.56%
64) 1,2-Dichlorobenzene-d4	11.85	152	490670	46.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.78%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	437609	42.498 ug/L	100
3) Chloromethane	1.33	50	516616	44.924 ug/L	99
5) Vinyl chloride	1.40	62	522202	43.348 ug/L	99
6) Bromomethane	1.61	94	272778	43.081 ug/L	95
8) Chloroethane	1.69	64	309511	43.422 ug/L	100
9) Trichlorofluoromethane	1.88	101	583326	42.783 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	358739	43.101 ug/L	96
12) 1,1-Dichloroethene	2.28	96	376342	45.561 ug/L	98
13) Acetone	2.32	43	481132	68.096 ug/L	97
14) Carbon disulfide	2.47	76	1154042	43.252 ug/L	100
15) Methyl Acetate	2.61	43	486962	45.391 ug/L #	100
16) Methylene chloride	2.69	84	448776	44.550 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	393589	45.803 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	1268789	48.052 ug/L	99
19) 1,1-Dichloroethane	3.44	63	770983	45.691 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	452720	47.630 ug/L	100
22) 2-Butanone	4.26	43	731548	89.766 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	216422	46.458	ug/L	97
25) Chloroform	4.67	83	756790	45.382	ug/L	99
27) 1,2-Dichloroethane	5.40	62	573586	44.439	ug/L	99
29) Cyclohexane	4.99	56	693573	50.970	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	599533	46.576	ug/L	98
31) Carbon tetrachloride	5.13	117	501457	46.696	ug/L	99
33) Benzene	5.38	78	1738108	47.799	ug/L	100
34) Trichloroethene	6.18	95	434418	48.240	ug/L	99
35) Methylcyclohexane	6.41	83	661359	47.894	ug/L	100
37) 1,2-Dichloropropane	6.43	63	467159	47.832	ug/L	100
38) Bromodichloromethane	6.75	83	566569	47.472	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	685024	49.401	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1314237	99.177	ug/L	99
42) Toluene	7.63	91	1857477	49.779	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	586289	48.144	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	432188	48.260	ug/L	98
46) Tetrachloroethene	8.22	164	297418	46.779	ug/L	99
48) 2-Hexanone	8.36	43	1058608	98.426	ug/L	99
49) Dibromochloromethane	8.47	129	429299	47.790	ug/L	100
50) 1,2-Dibromoethane	8.58	107	448175	47.290	ug/L	99
51) Chlorobenzene	9.12	112	1102579	46.538	ug/L	100
52) Ethylbenzene	9.24	91	1981539	49.624	ug/L	99
53) m,p-Xylene	9.37	106	726932	49.884	ug/L	98
54) o-xylene	9.77	106	747250	51.934	ug/L	98
55) Styrene	9.79	104	1285574	52.050	ug/L	99
56) Isopropylbenzene	10.16	105	1906795	51.722	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	742113	45.910	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	591947	46.465	ug/L	100
61) Bromoform	9.95	173	302479	45.567	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	799306	49.119	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	812262	47.190	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	842380	48.850	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	155291	46.614	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	584129	50.053	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	485444	54.006	ug/L	100
69) Naphthalene	13.74	128	1723023	57.573	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	533971	54.571	ug/L	99

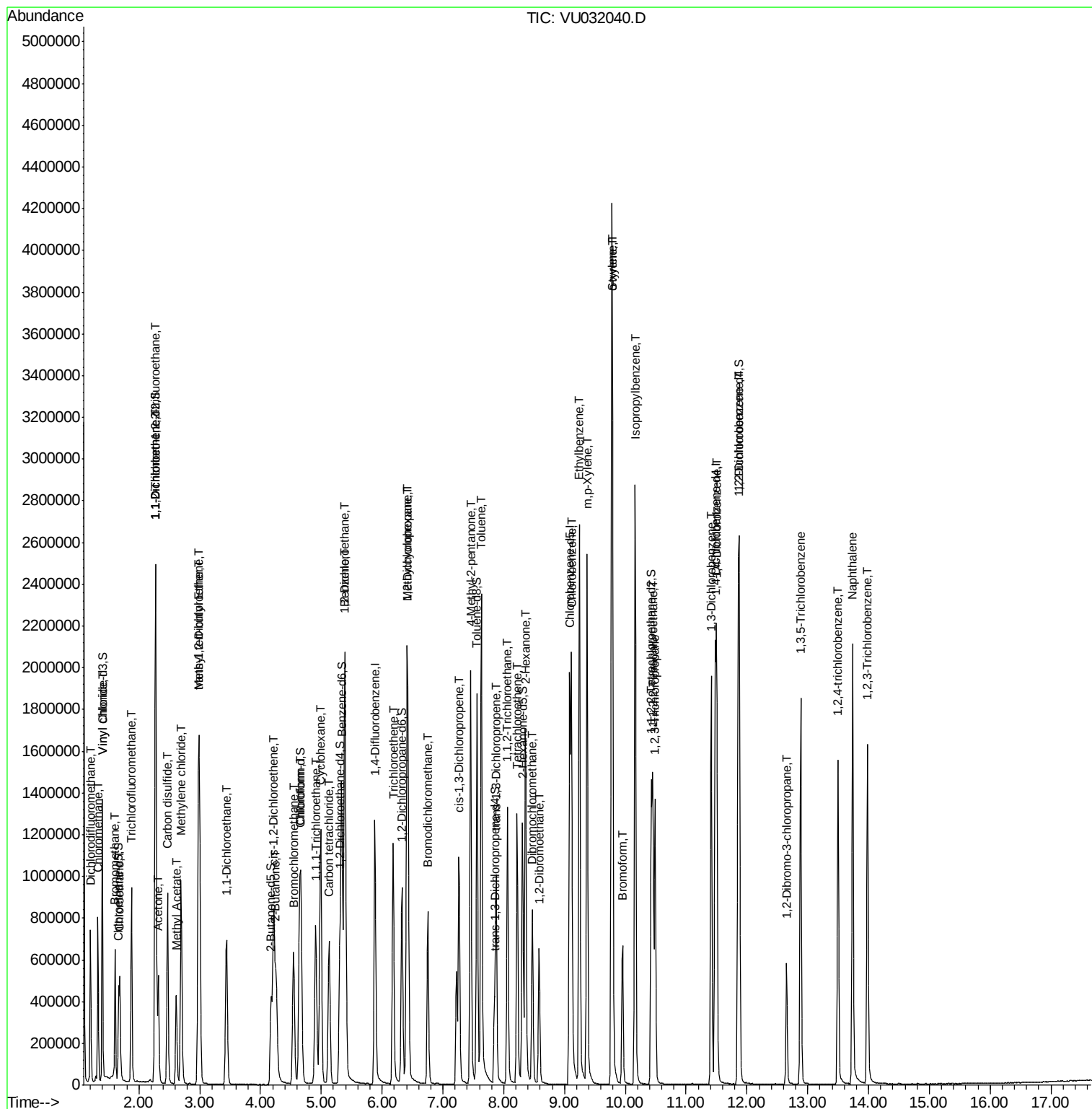
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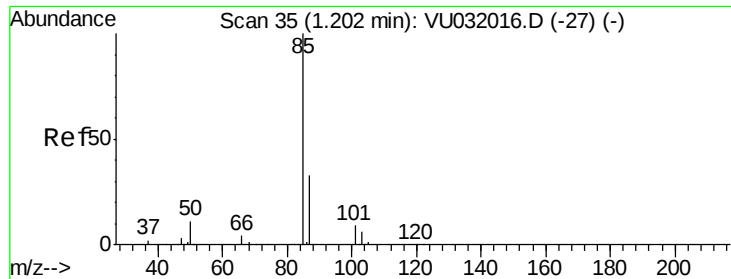
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#2

Dichlorodifluoromethane

Concen: 42.498 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

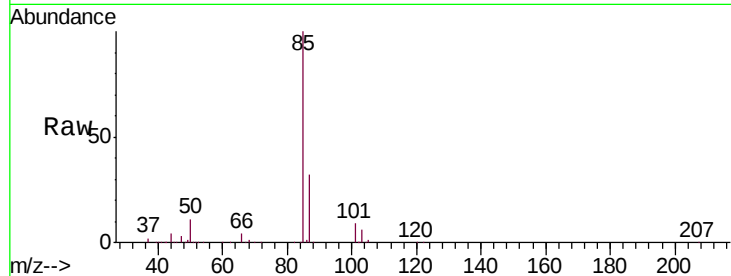
VSTD05047

Tgt Ion: 85 Resp: 437609

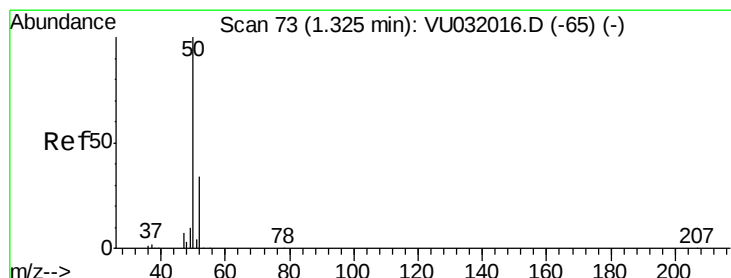
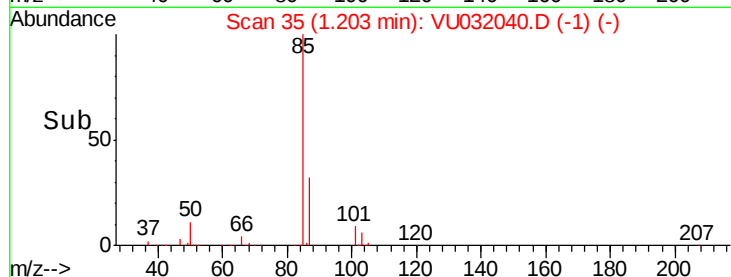
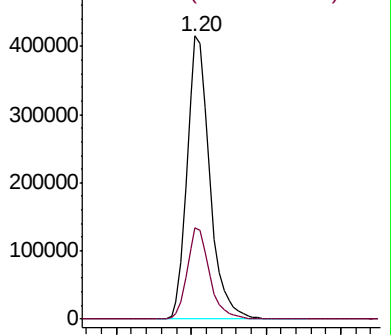
Ion Ratio Lower Upper

85 100

87 31.9 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU032016.D (-27) (-)



#3

Chloromethane

Concen: 44.924 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032040.D

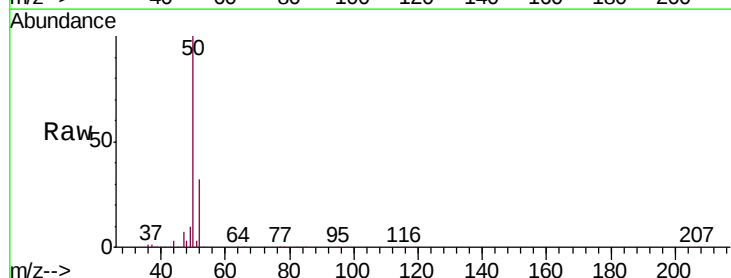
Acq: 15 May 2019 19:19

Tgt Ion: 50 Resp: 516616

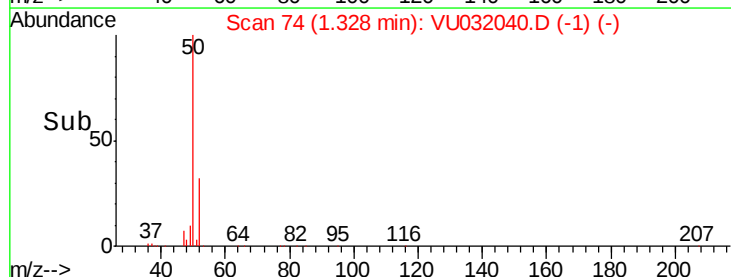
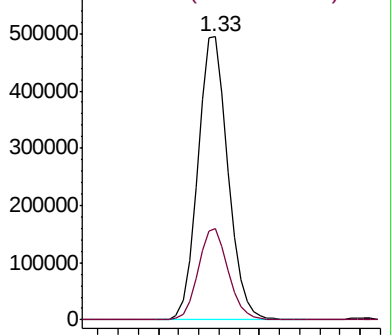
Ion Ratio Lower Upper

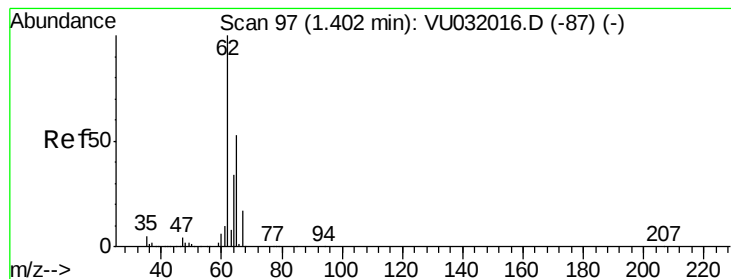
50 100

52 32.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032016.D (-65) (-)





#5

Vinyl chloride

Concen: 43.348 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

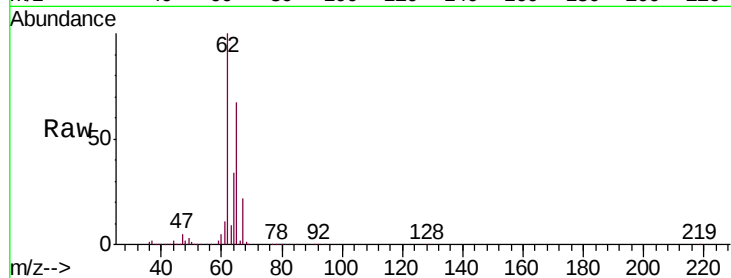
VSTD05047

Tgt Ion: 62 Resp: 522202

Ion Ratio Lower Upper

62 100

64 34.3 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU032016.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU032016.D (-87) (-)

1.40

500000

400000

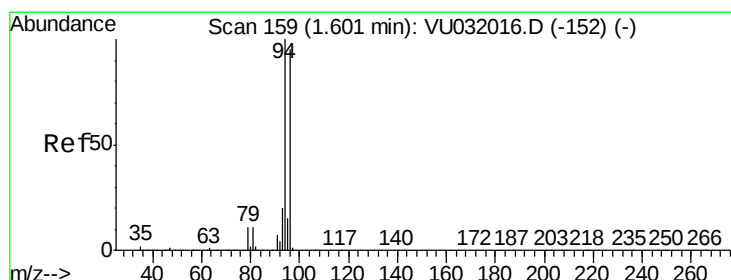
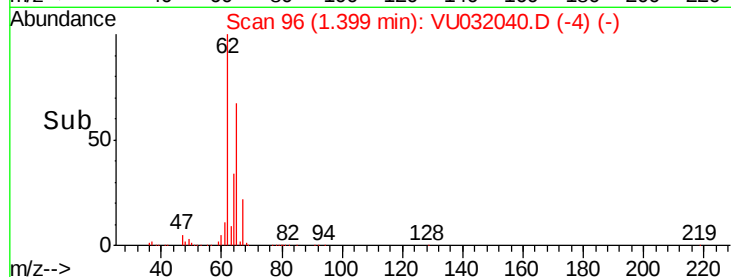
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 43.081 ug/L

RT: 1.61 min Scan# 161

Delta R.T. 0.01 min

Lab File: VU032040.D

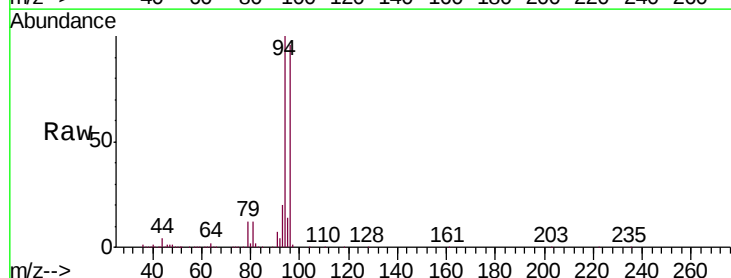
Acq: 15 May 2019 19:19

Tgt Ion: 94 Resp: 272778

Ion Ratio Lower Upper

94 100

96 96.4 64.0 118.8



Abundance Ion 94.00 (93.70 to 94.70): VU032016.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU032016.D (-152) (-)

1.61

250000

200000

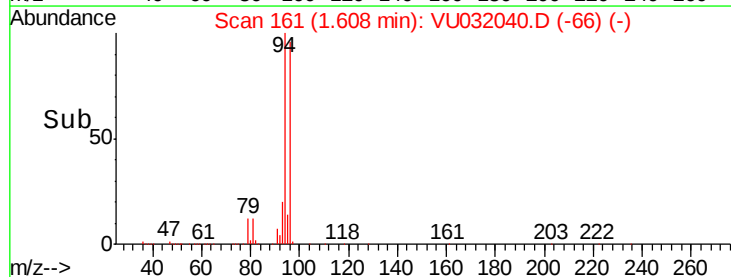
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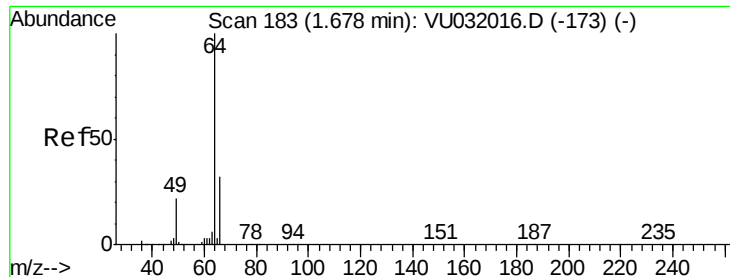
100000

50000

0

Time-->





#8

Chloroethane

Concen: 43.422 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.01 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

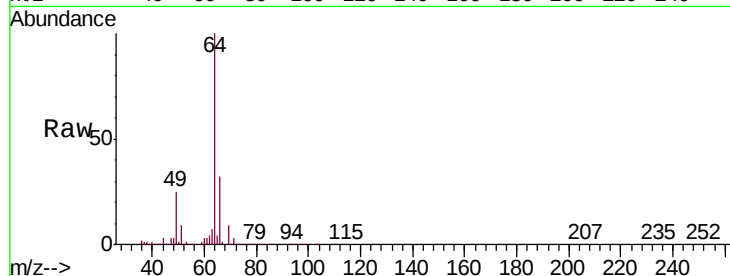
VSTD05047

Tgt Ion: 64 Resp: 309511

Ion Ratio Lower Upper

64 100

66 32.4 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VU032016.D (-173) (-)

Ion 66.00 (65.70 to 66.70): VU032016.D (-173) (-)

1.69

250000

200000

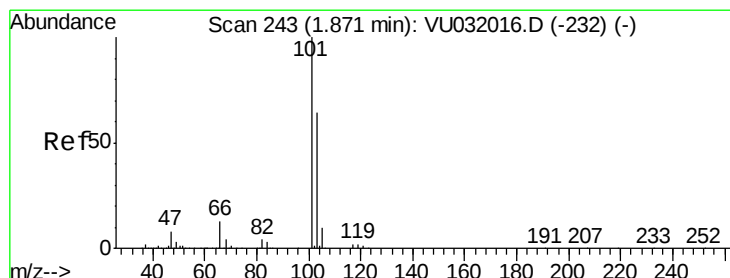
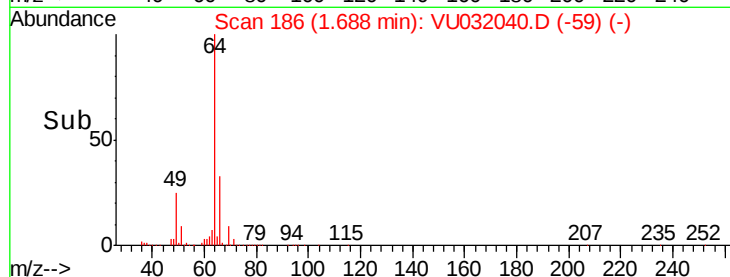
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 42.783 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.01 min

Lab File: VU032040.D

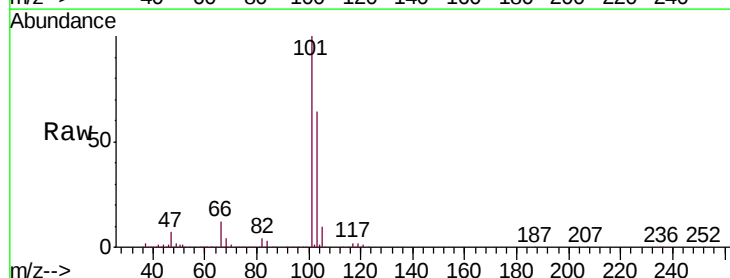
Acq: 15 May 2019 19:19

Tgt Ion: 101 Resp: 583326

Ion Ratio Lower Upper

101 100

103 63.8 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VU032016.D (-232) (-)

Ion 103.00 (102.70 to 103.70): VU032016.D (-232) (-)

1.88

500000

400000

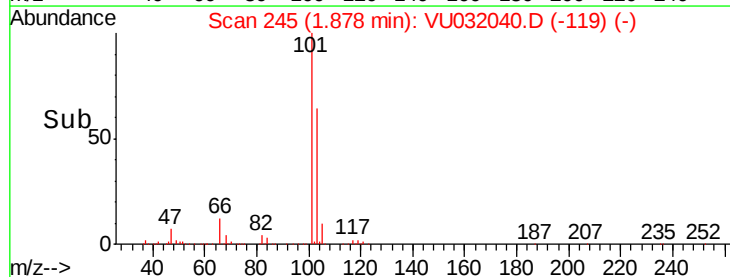
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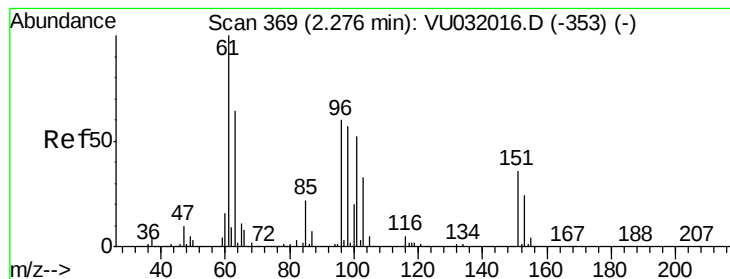
200000

100000

0

Time-->





#10

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

Concen: 43.101 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

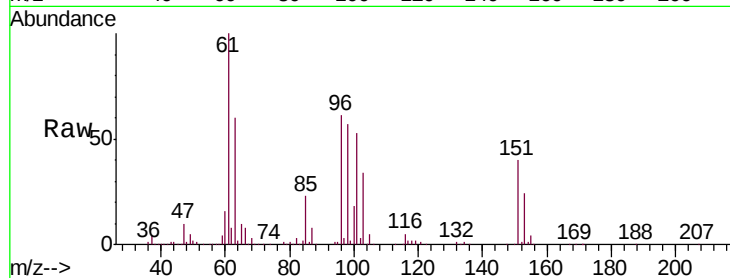
Tgt Ion: 101 Resp: 358739

Ion Ratio Lower Upper

101 100

85 43.4 34.1 51.1

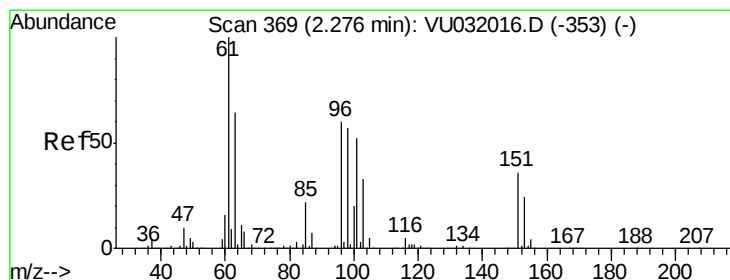
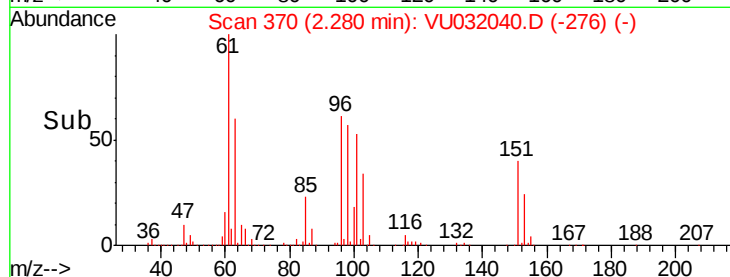
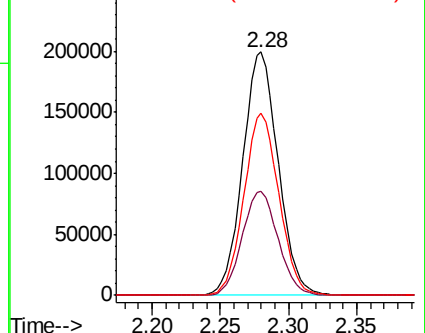
151 74.2 55.8 83.8



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: 45.561 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

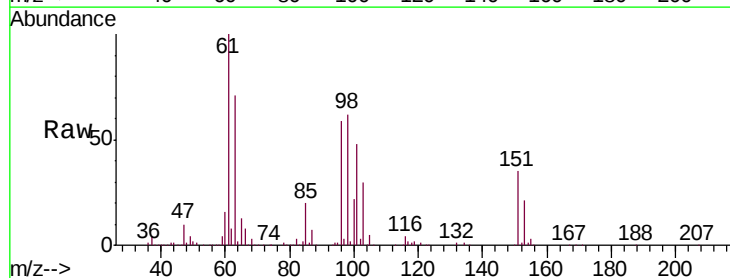
Tgt Ion: 96 Resp: 376342

Ion Ratio Lower Upper

96 100

61 169.3 120.9 224.5

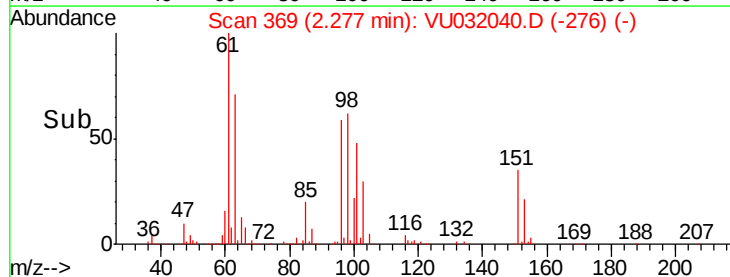
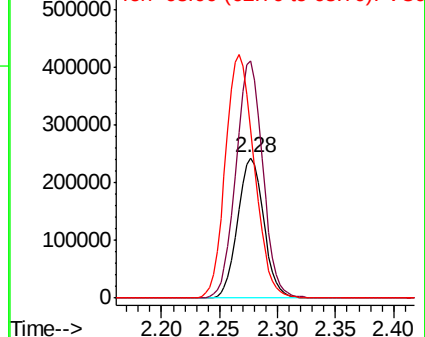
63 120.4 84.4 156.8

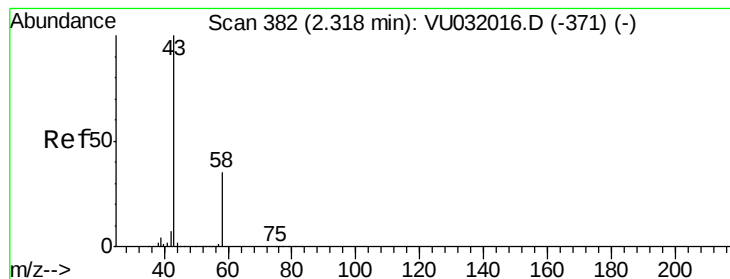


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 68.096 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032040.D

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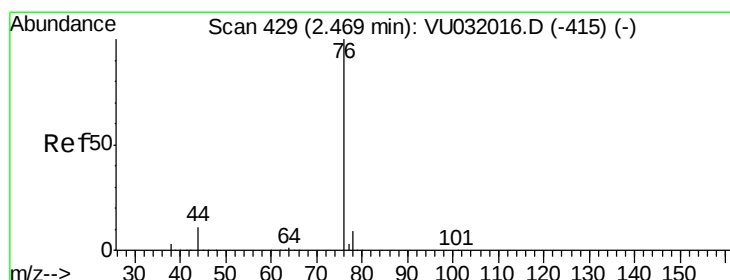
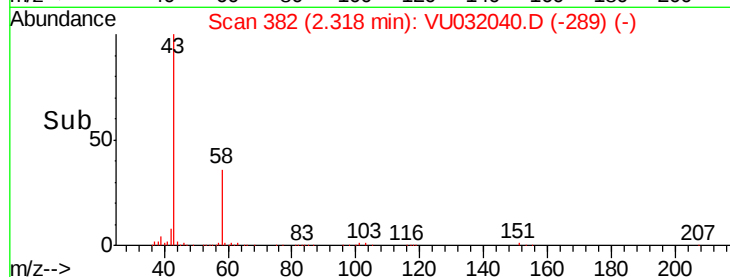
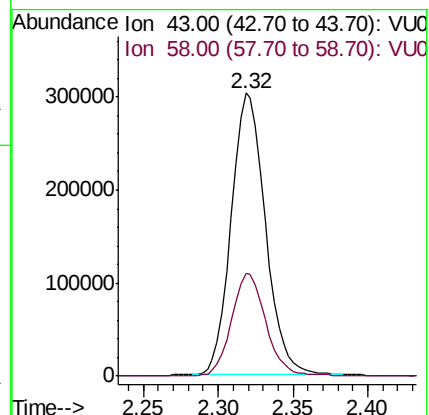
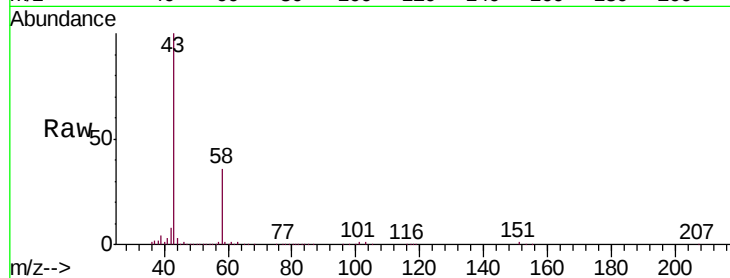
VSTD05047

Tgt Ion: 43 Resp: 481132

Ion Ratio Lower Upper

43 100

58 36.0 0.0 68.2



#14

Carbon disulfide

Concen: 43.252 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032040.D

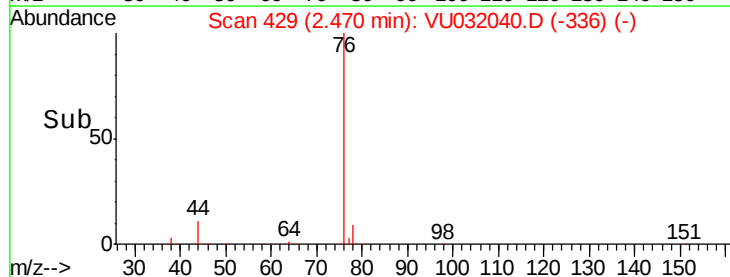
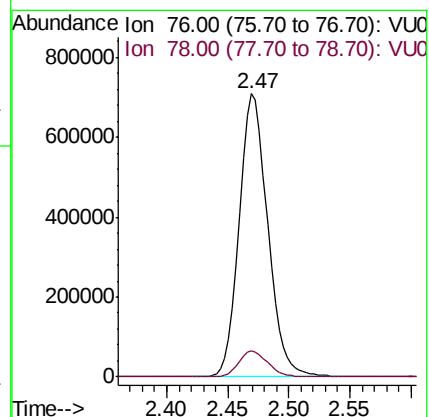
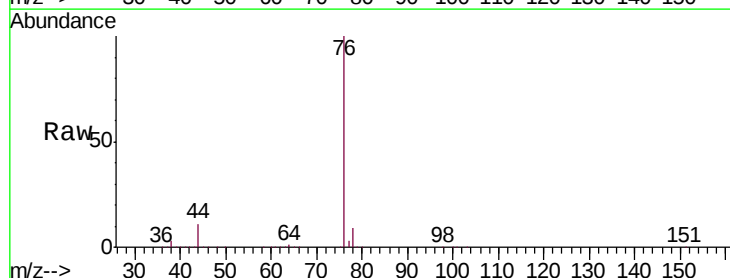
Acq: 15 May 2019 19:19

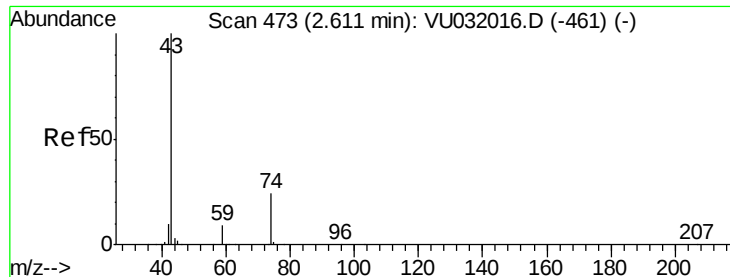
Tgt Ion: 76 Resp: 1154042

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2





#15

Methyl Acetate

Concen: 45.391 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

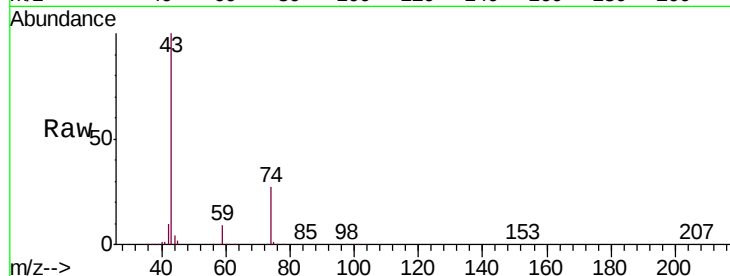
VSTD05047

Tgt Ion: 43 Resp: 486962

Ion Ratio Lower Upper

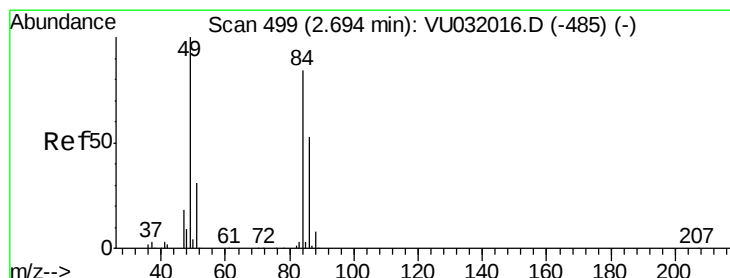
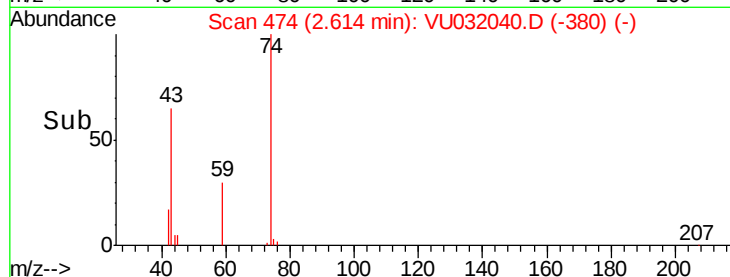
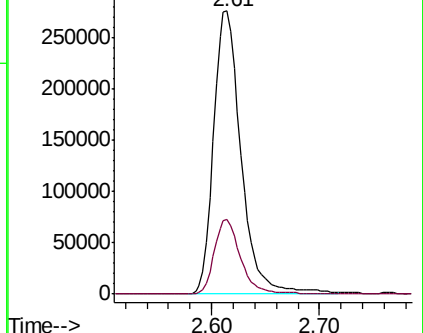
43 100

74 25.0 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VU032016.D (-461) (-)

Ion 74.00 (73.70 to 74.70): VU032016.D (-461) (-)



#16

Methylene chloride

Concen: 44.550 ug/L

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

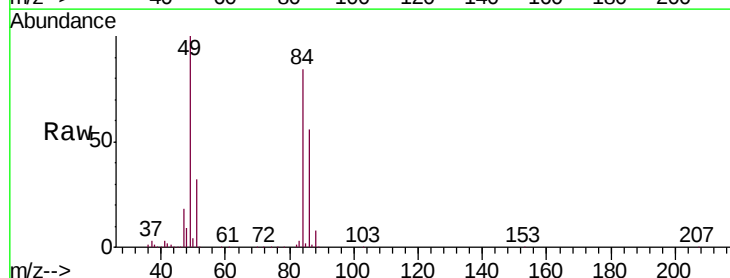
Tgt Ion: 84 Resp: 448776

Ion Ratio Lower Upper

84 100

86 66.7 45.8 85.0

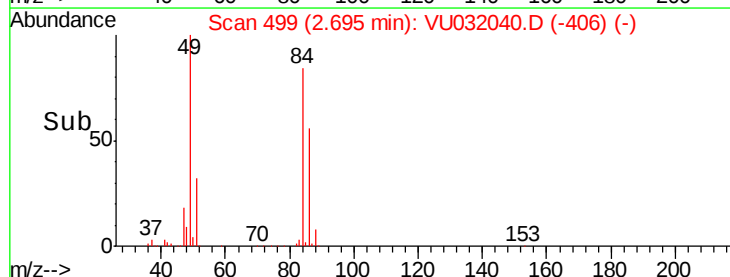
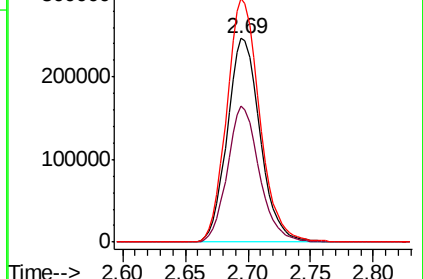
49 119.5 83.3 154.7

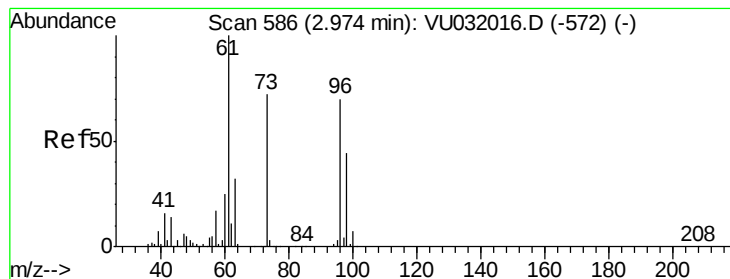


Abundance Ion 84.00 (83.70 to 84.70): VU032016.D (-485) (-)

Ion 86.00 (85.70 to 86.70): VU032016.D (-485) (-)

Ion 49.00 (48.70 to 49.70): VU032016.D (-485) (-)





#17

trans-1,2-Dichloroethene

Concen: 45.803 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

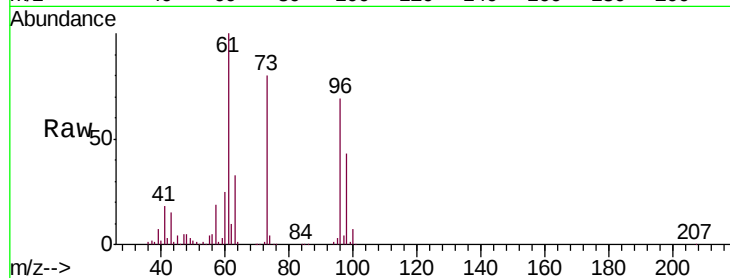
Tgt Ion: 96 Resp: 393589

Ion Ratio Lower Upper

96 100

61 144.8 103.2 191.6

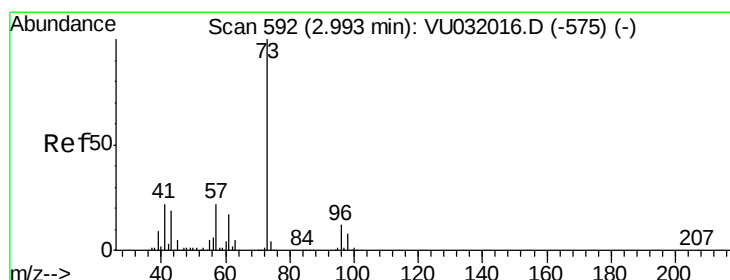
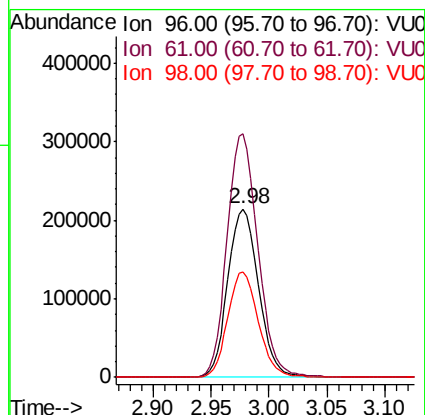
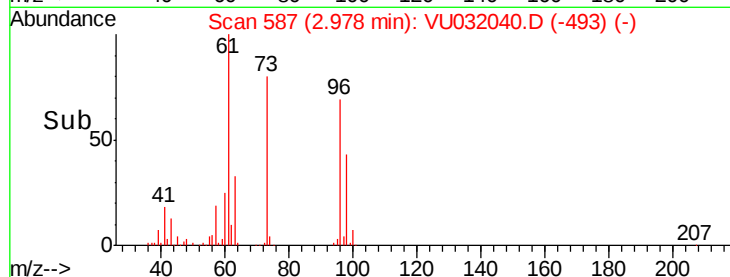
98 62.8 45.7 84.9



Abundance Ion 96.00 (95.70 to 96.70): VU032016.D (-572) (-)

Ion 61.00 (60.70 to 61.70): VU032016.D (-572) (-)

Ion 98.00 (97.70 to 98.70): VU032016.D (-572) (-)



#18

Methyl tert-butyl Ether

Concen: 48.052 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

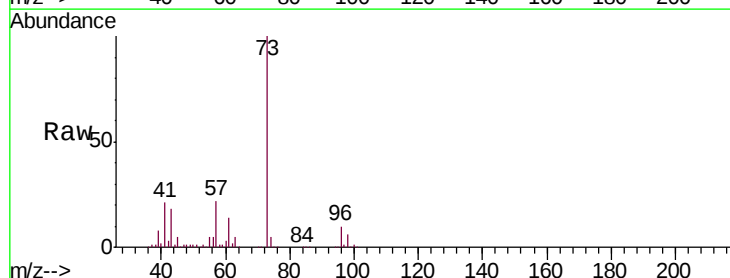
Tgt Ion: 73 Resp: 1268789

Ion Ratio Lower Upper

73 100

43 17.9 15.1 22.7

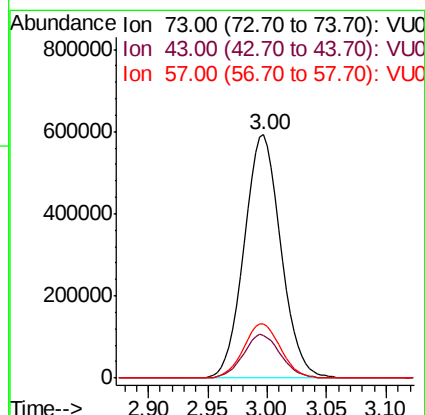
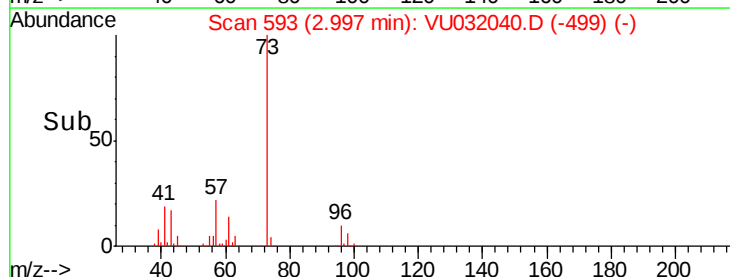
57 22.6 18.2 27.4

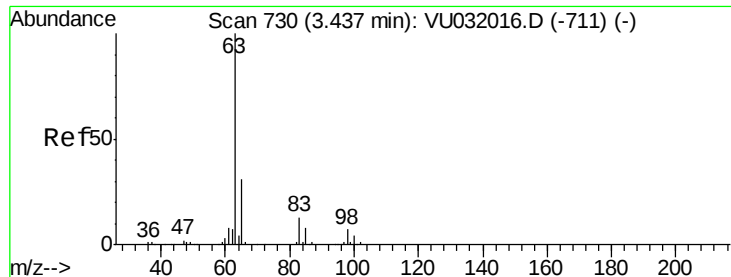


Abundance Ion 73.00 (72.70 to 73.70): VU032016.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU032016.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU032016.D (-575) (-)

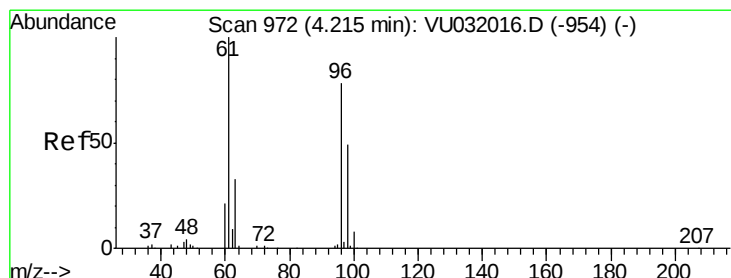
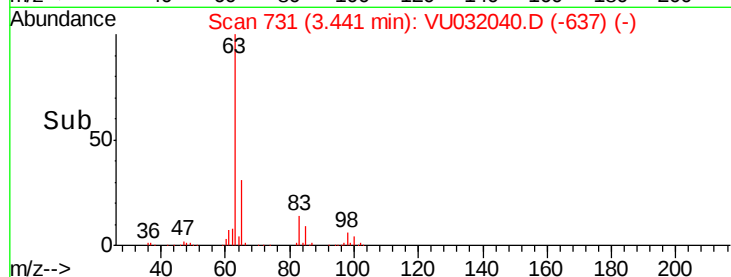
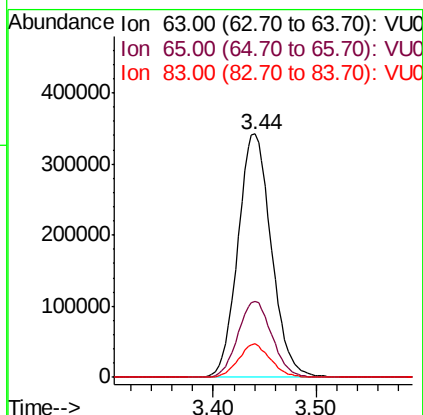
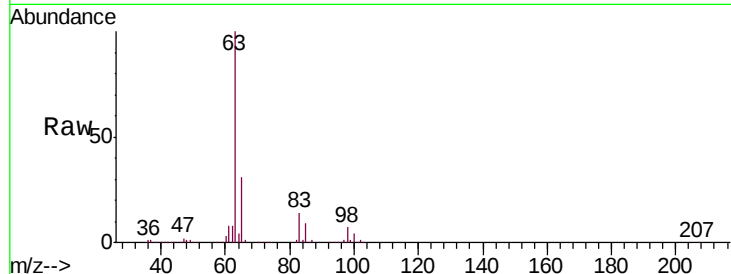




#19
 1,1-Dichloroethane
 Concen: 45.691 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

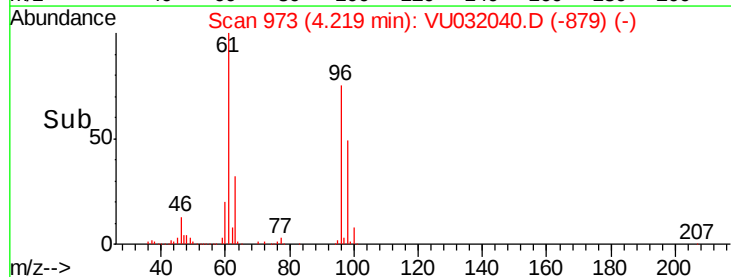
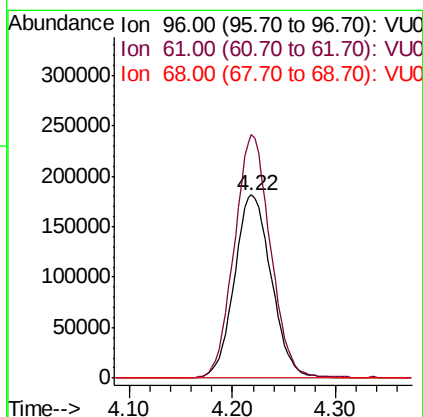
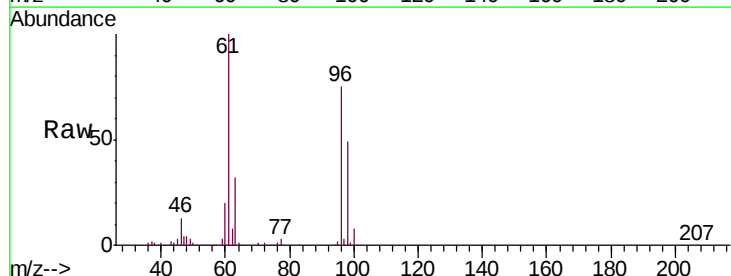
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

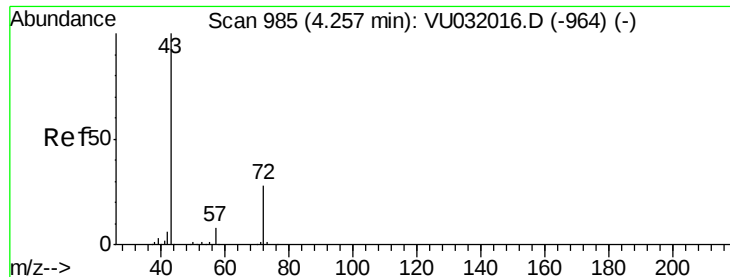
Tgt Ion: 63 Resp: 770983
 Ion Ratio Lower Upper
 63 100
 65 31.3 22.2 41.2
 83 13.6 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 47.630 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

Tgt Ion: 96 Resp: 452720
 Ion Ratio Lower Upper
 96 100
 61 132.8 93.0 172.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 89.766 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

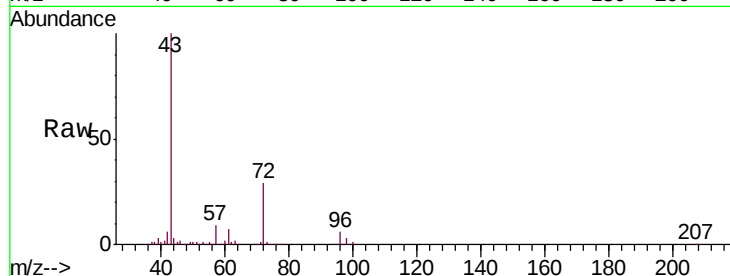
VSTD05047

Tgt Ion: 43 Resp: 731548

Ion Ratio Lower Upper

43 100

72 28.7 13.9 41.7



Abundance Ion 43.00 (42.70 to 43.70): VU032016.D (-964) (-)

Ion 72.00 (71.70 to 72.70): VU032016.D (-964) (-)

4.26

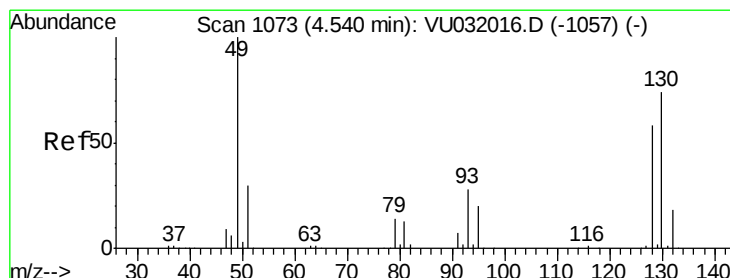
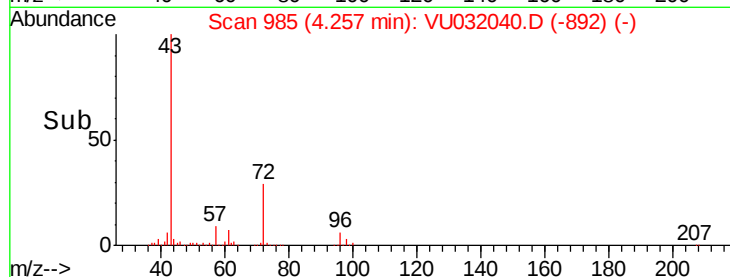
300000

200000

100000

0

Time-->



#23

Bromochloromethane

Concen: 46.458 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Tgt Ion: 128 Resp: 216422

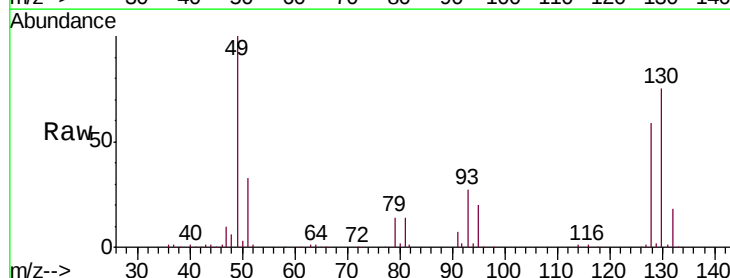
Ion Ratio Lower Upper

128 100

49 168.5 121.7 226.1

130 126.1 89.5 166.1

51 56.0 44.1 66.1



Abundance Ion 128.00 (127.70 to 128.70): VU032016.D (-1057) (-)

Ion 49.00 (48.70 to 49.70): VU032016.D (-1057) (-)

Ion 130.00 (129.70 to 130.70): VU032016.D (-1057) (-)

Ion 51.00 (50.70 to 51.70): VU032016.D (-1057) (-)

200000

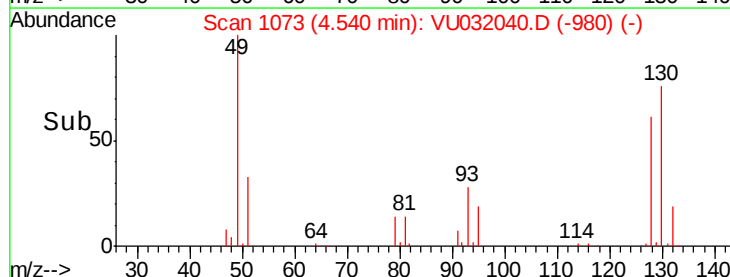
150000

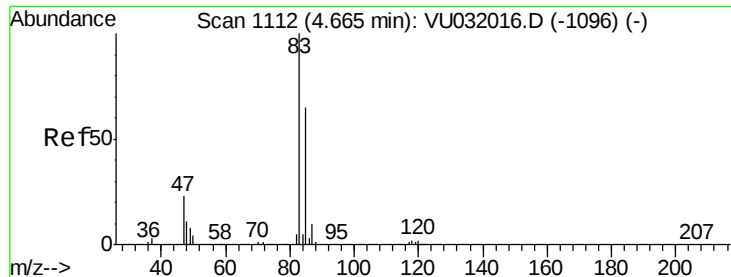
100000

50000

0

Time-->

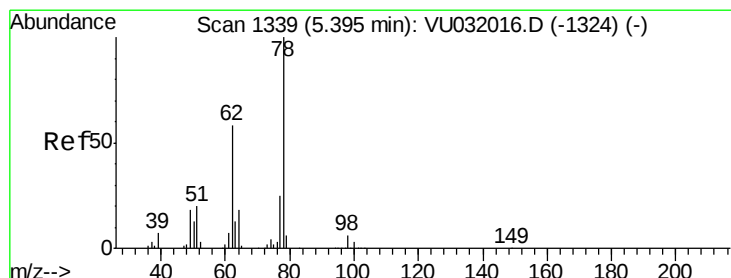
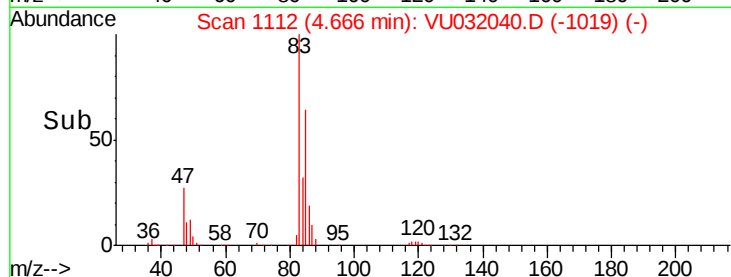
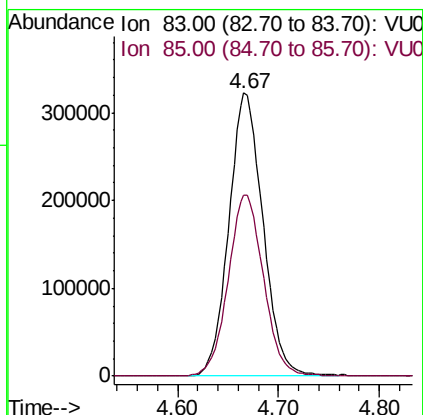
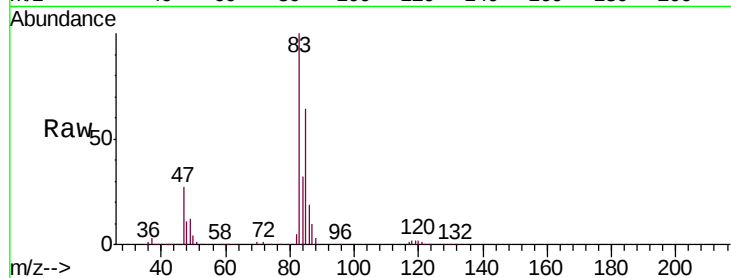




#25
Chloroform
Concen: 45.382 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032040.D
Acq: 15 May 2019 19:19

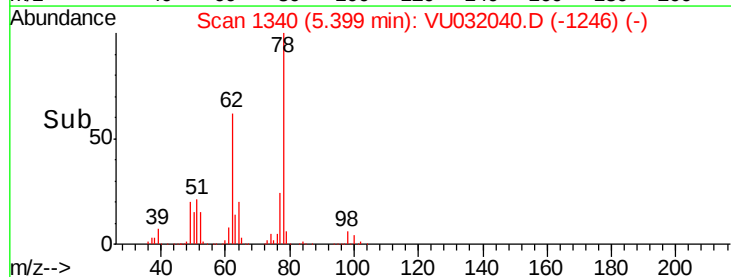
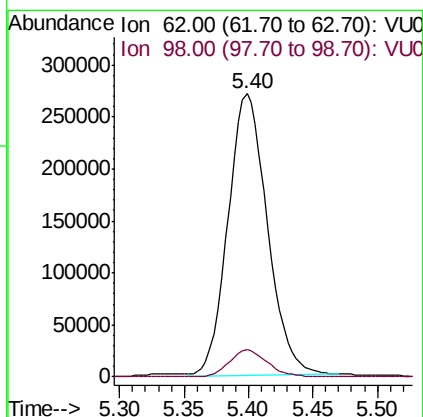
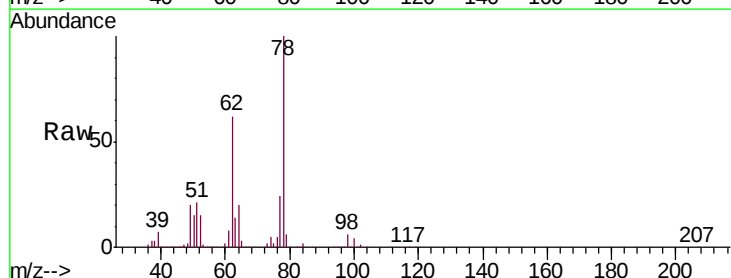
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

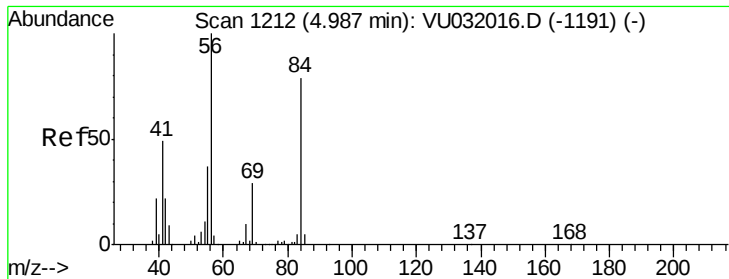
Tgt Ion: 83 Resp: 756790
Ion Ratio Lower Upper
83 100
85 64.0 44.2 82.2



#27
1,2-Dichloroethane
Concen: 44.439 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032040.D
Acq: 15 May 2019 19:19

Tgt Ion: 62 Resp: 573586
Ion Ratio Lower Upper
62 100
98 9.5 7.2 10.8

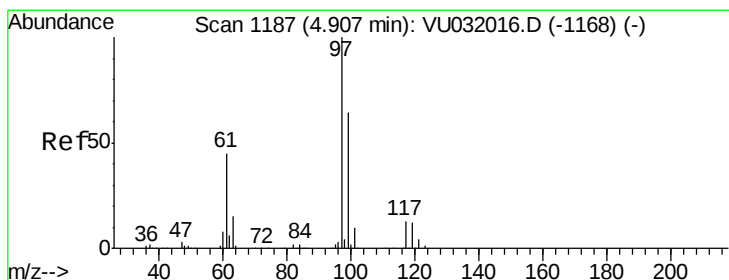
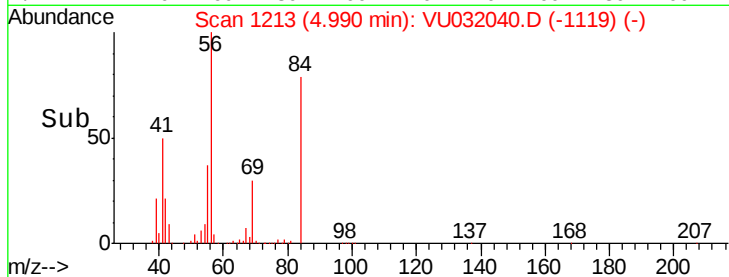
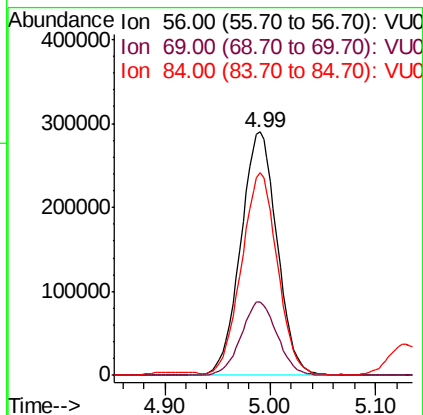
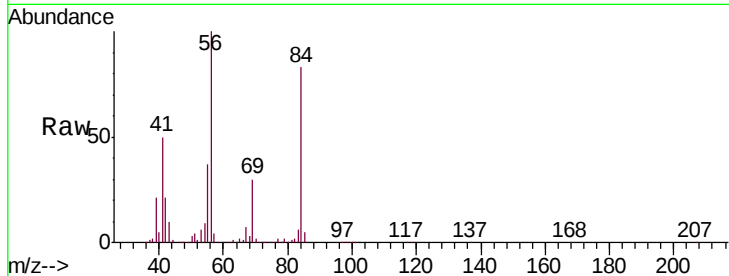




#29
Cyclohexane
Concen: 50.970 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU032040.D
Acq: 15 May 2019 19:19

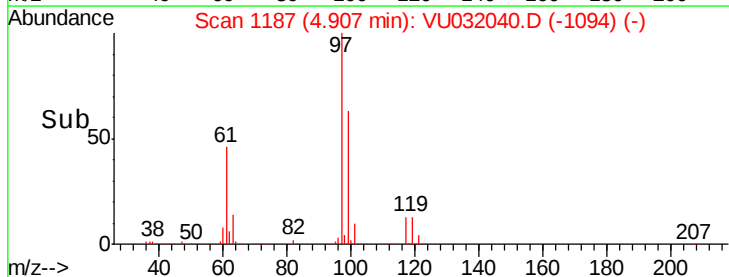
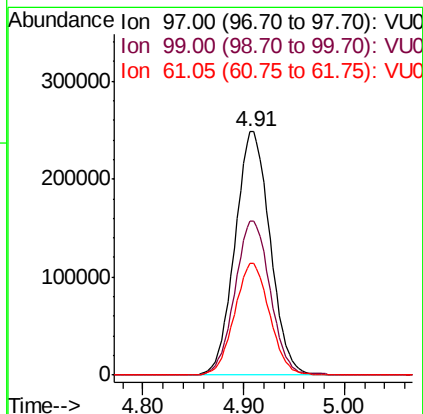
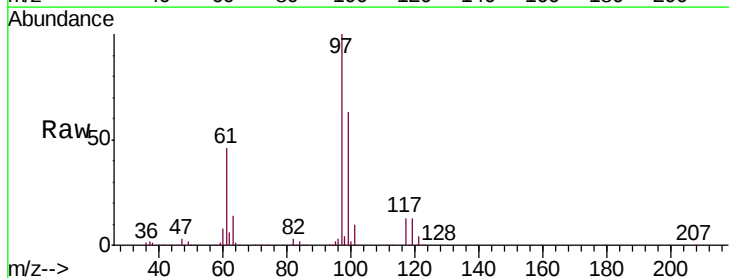
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

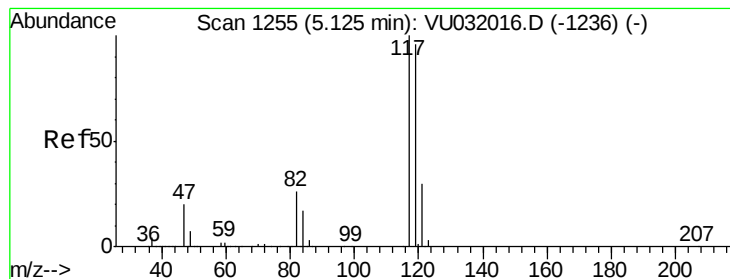
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.8	37.2
84	81.6	65.5	98.3



#30
1,1,1-Trichloroethane
Concen: 46.576 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU032040.D
Acq: 15 May 2019 19:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.8	77.8
61	45.6	37.5	56.3





#31

Carbon tetrachloride

Concen: 46.696 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

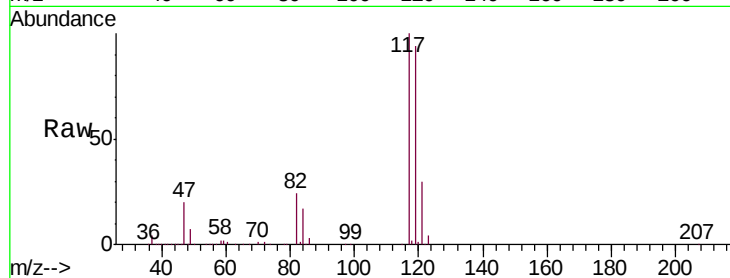
VSTD05047

Tgt Ion:117 Resp: 501457

Ion Ratio Lower Upper

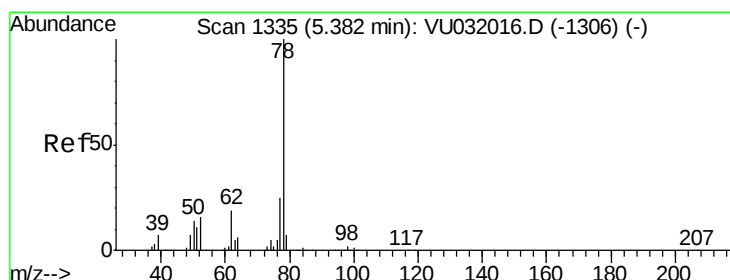
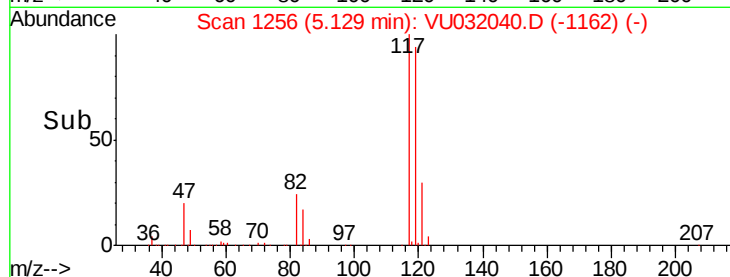
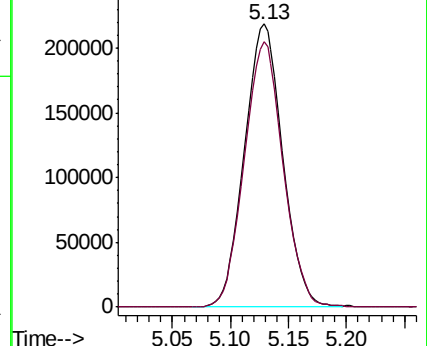
117 100

119 95.2 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 47.799 ug/L

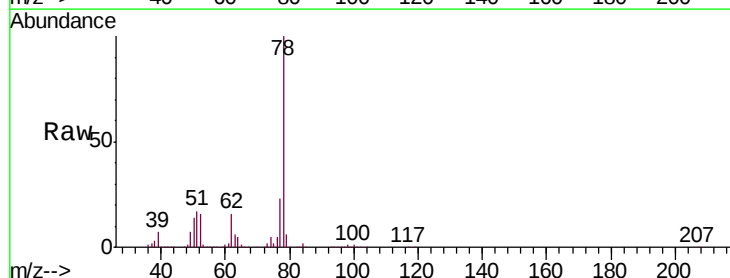
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

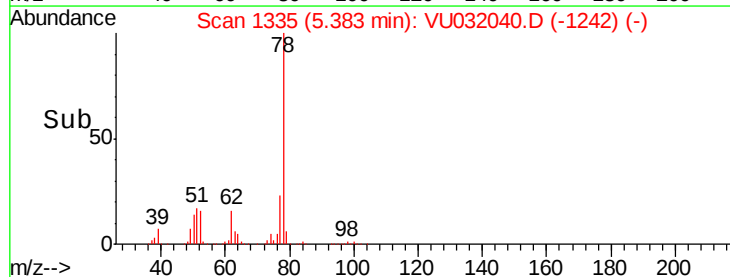
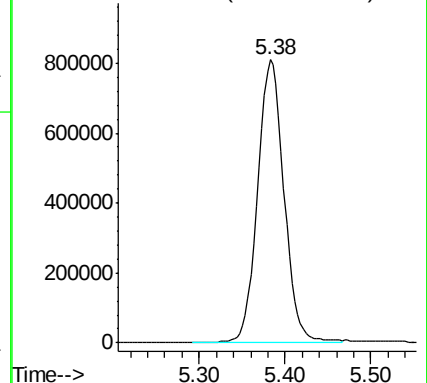
Lab File: VU032040.D

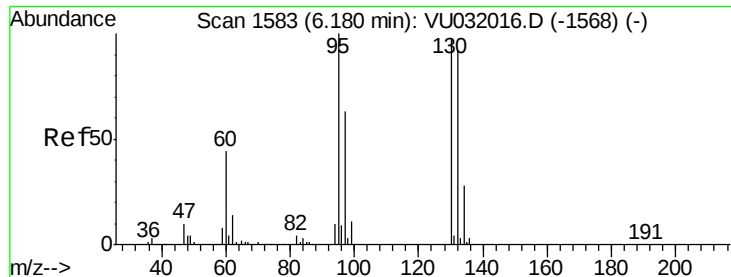
Acq: 15 May 2019 19:19

Tgt Ion: 78 Resp: 1738108



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.240 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

Tgt Ion: 95 Resp: 434418

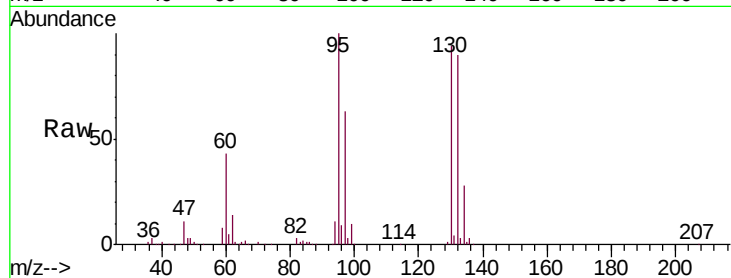
Ion Ratio Lower Upper

95 100

97 62.9 44.9 83.3

132 90.3 63.5 117.9

130 93.8 66.2 123.0

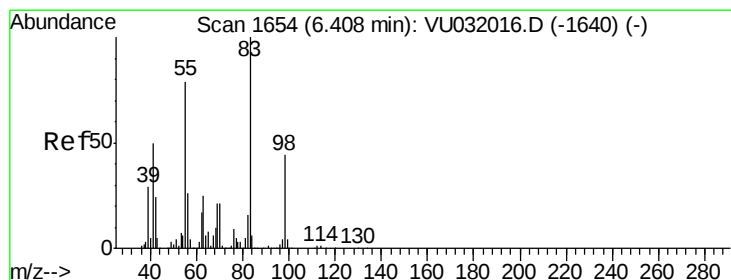
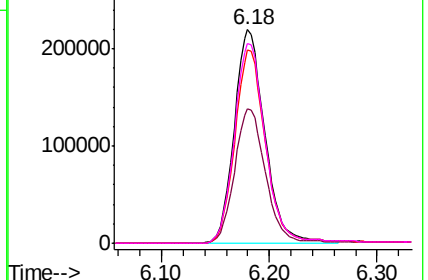
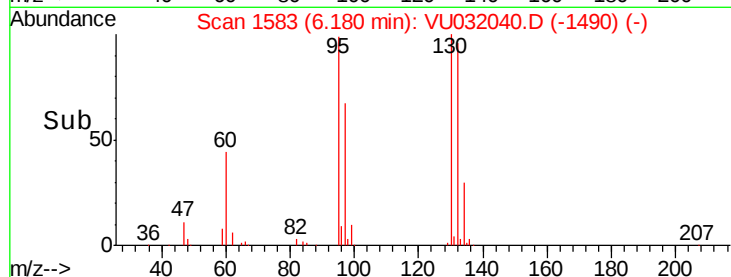


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 47.894 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

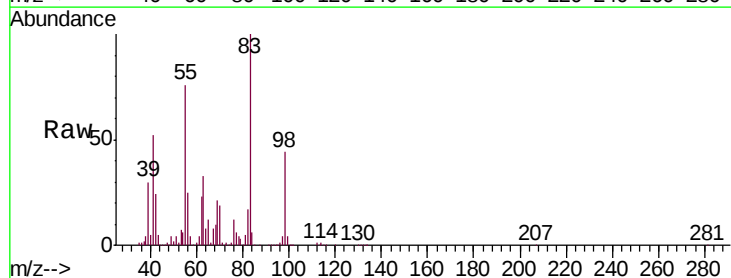
Tgt Ion: 83 Resp: 661359

Ion Ratio Lower Upper

83 100

55 79.7 64.0 96.0

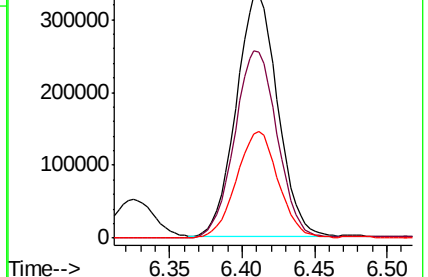
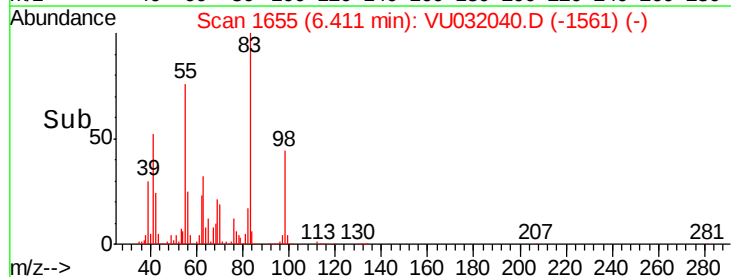
98 44.3 35.6 53.4

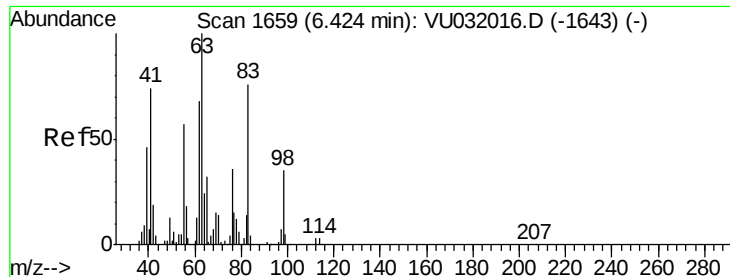


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

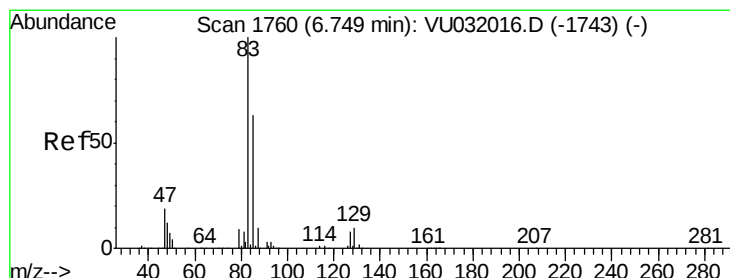
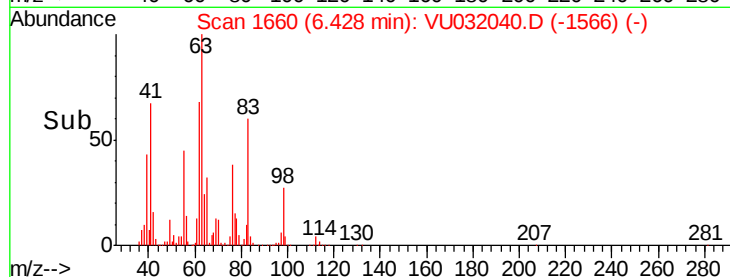
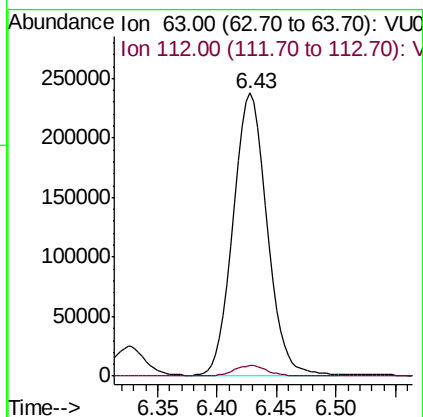
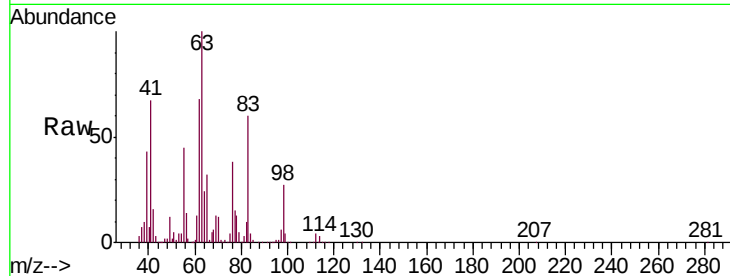




#37
 1,2-Dichloropropane
 Concen: 47.832 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

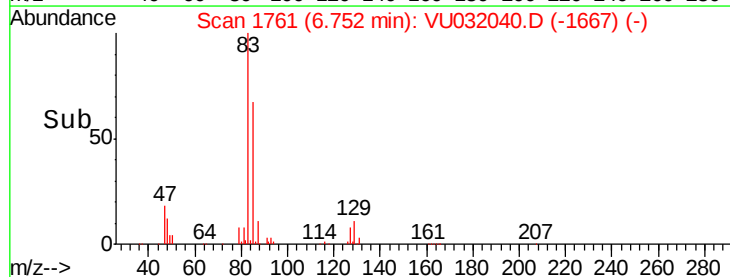
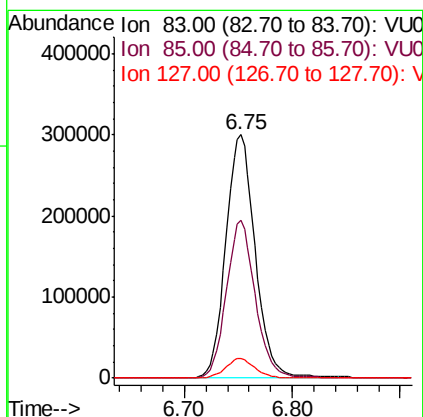
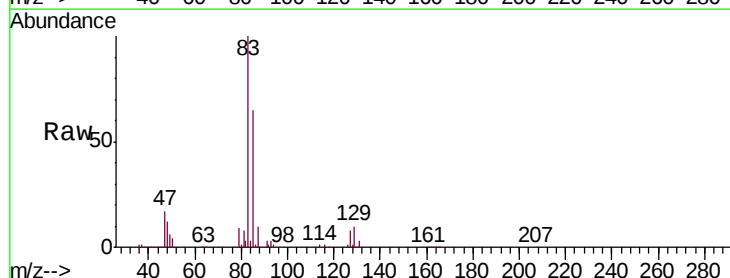
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05047

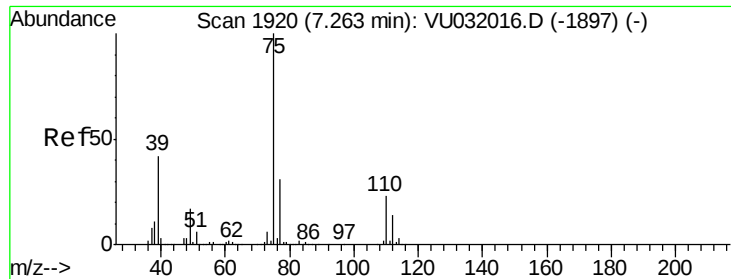
Tgt Ion: 63 Resp: 467159
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 47.472 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

Tgt Ion: 83 Resp: 566569
 Ion Ratio Lower Upper
 83 100
 85 64.8 44.7 82.9
 127 8.0 6.5 9.7

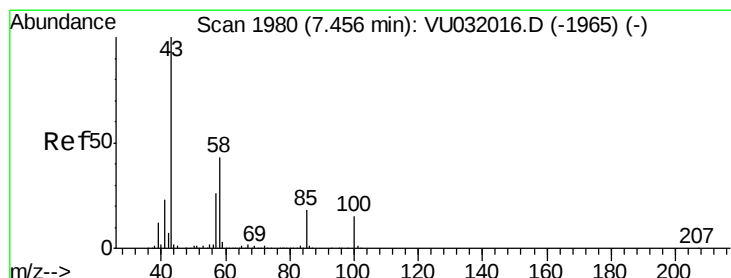
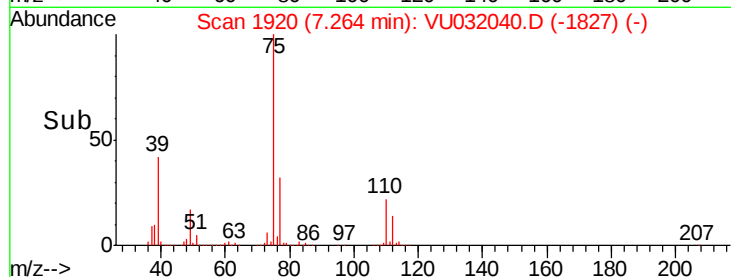
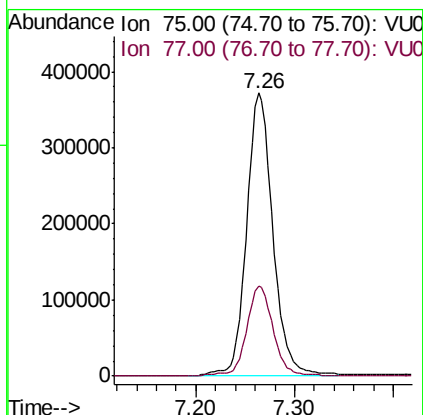
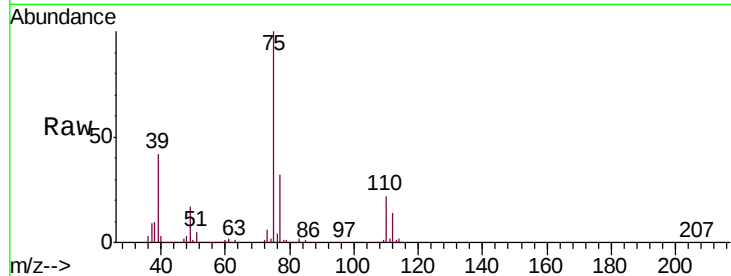




#39
 cis-1,3-Dichloropropene
 Concen: 49.401 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

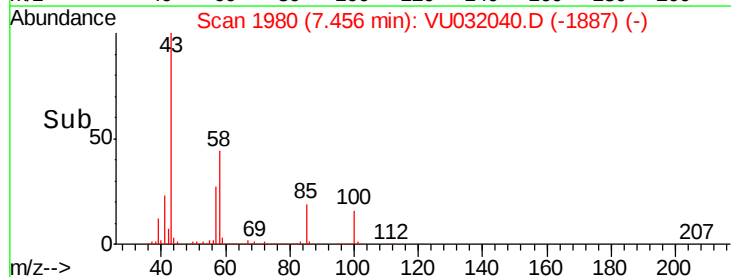
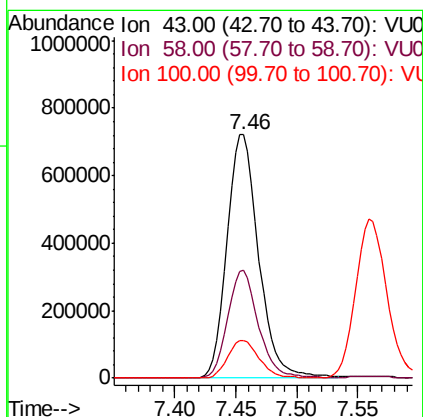
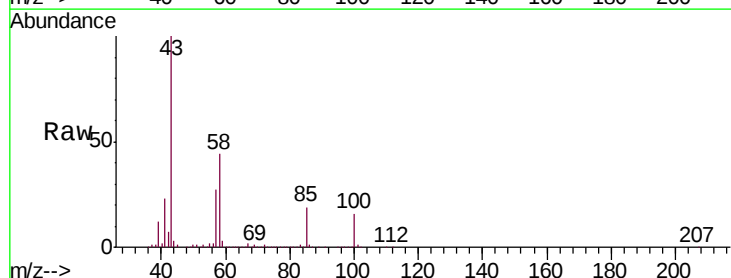
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

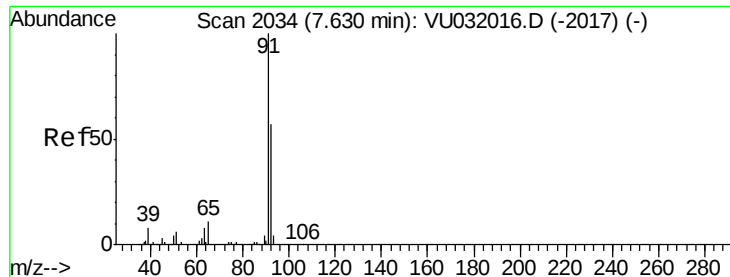
Tgt Ion: 75 Resp: 685024
 Ion Ratio Lower Upper
 75 100
 77 31.7 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 99.177 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

Tgt Ion: 43 Resp: 1314237
 Ion Ratio Lower Upper
 43 100
 58 42.8 33.6 50.4
 100 15.5 11.8 17.8





#42

Toluene

Concen: 49.779 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

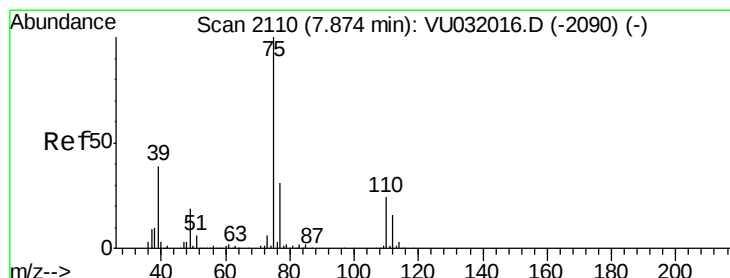
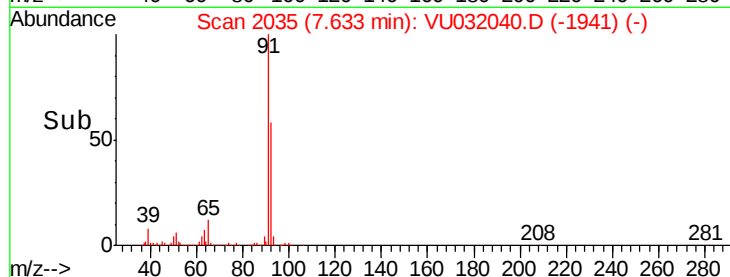
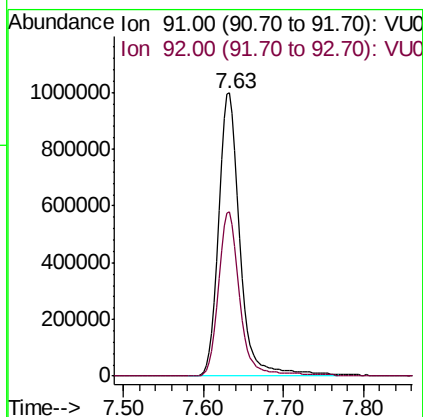
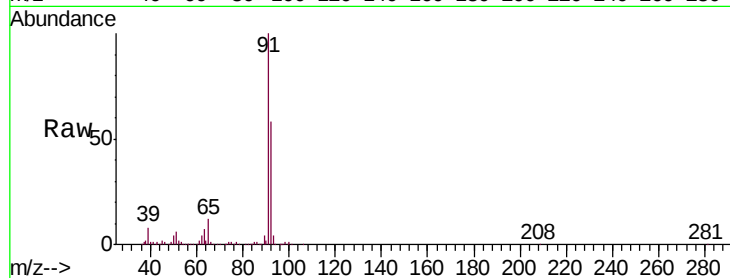
VSTD05047

Tgt Ion: 91 Resp: 1857477

Ion Ratio Lower Upper

91 100

92 57.9 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 48.144 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032040.D

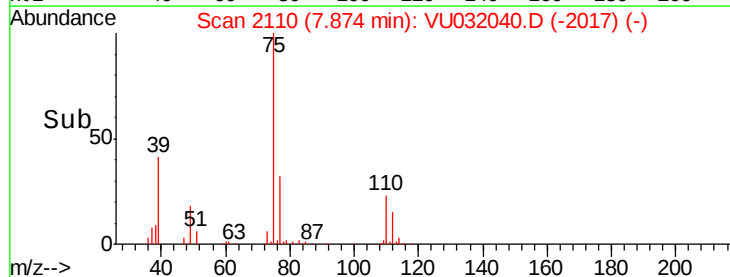
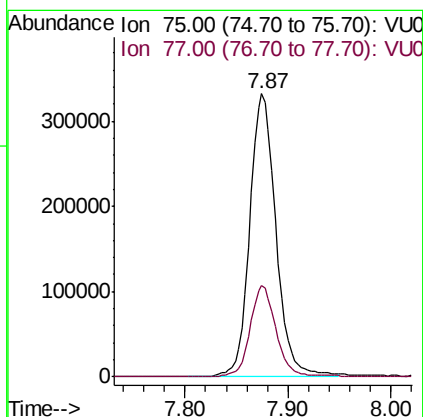
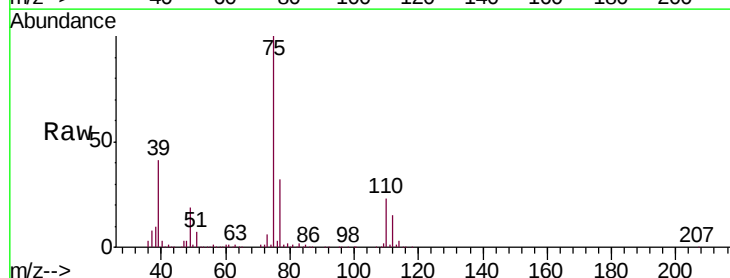
Acq: 15 May 2019 19:19

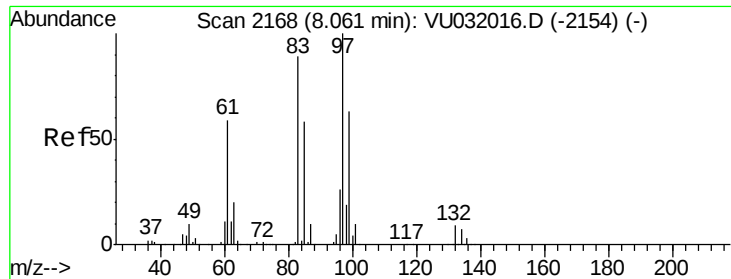
Tgt Ion: 75 Resp: 586289

Ion Ratio Lower Upper

75 100

77 32.3 22.5 41.7

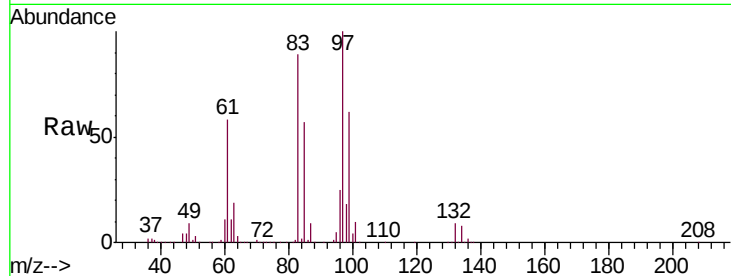




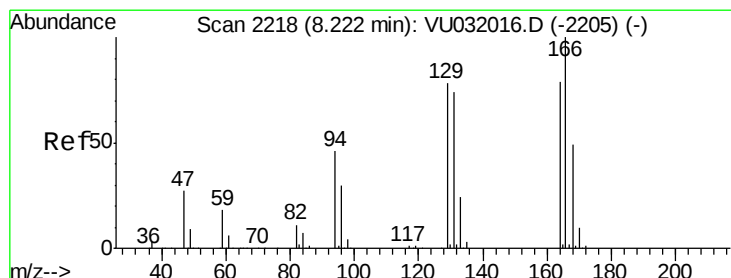
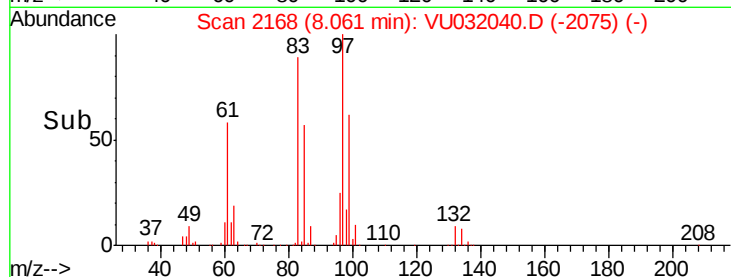
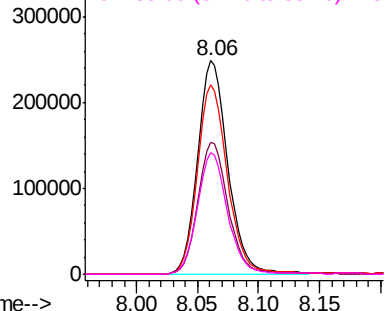
#45
 1,1,2-Trichloroethane
 Concen: 48.260 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion:	97	Resp:	432188
Ion	Ratio	Lower	Upper
97	100		
99	61.7	44.4	82.4
83	88.5	63.8	118.4
85	56.8	40.7	75.5

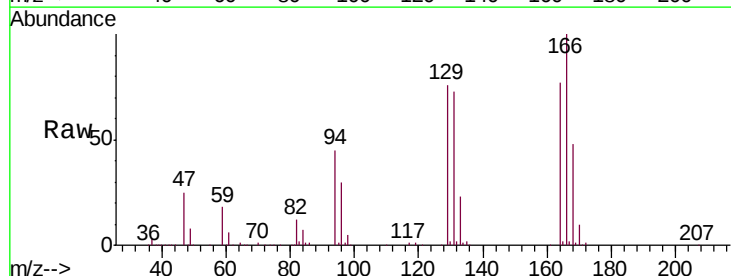


Abundance Ion 97.00 (96.70 to 97.70): VU032016.D (-2154) (-)

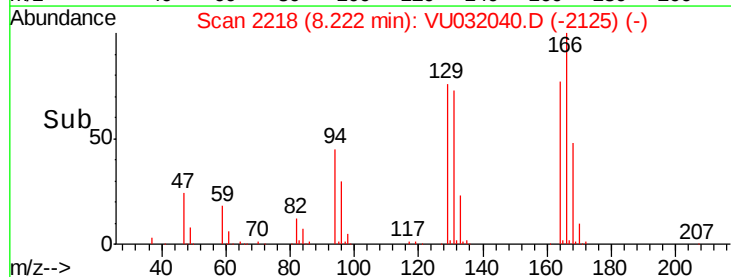
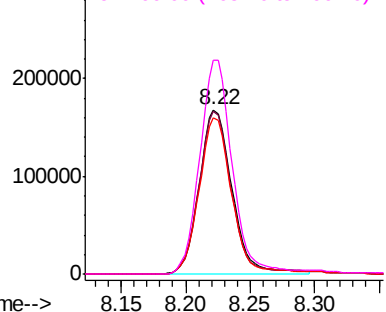


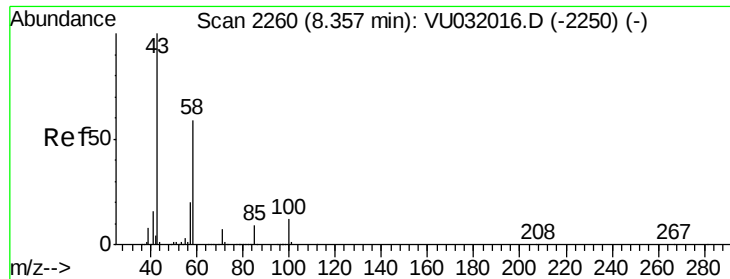
#46
 Tetrachloroethene
 Concen: 46.779 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

Tgt Ion:	164	Resp:	297418
Ion	Ratio	Lower	Upper
164	100		
129	98.6	70.9	131.7
131	95.3	67.4	125.2
166	129.8	90.2	167.4



Abundance Ion 164.00 (163.70 to 164.70): VU032016.D (-2205) (-)

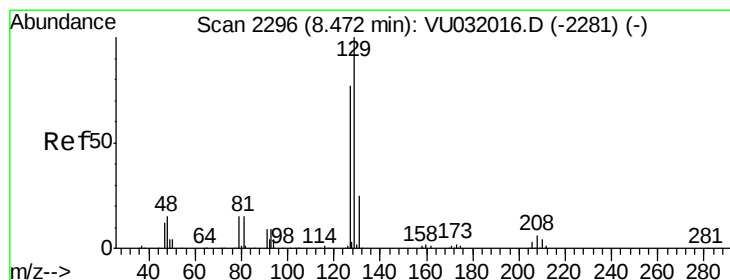
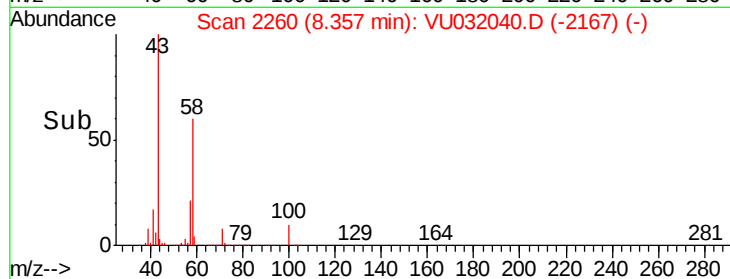
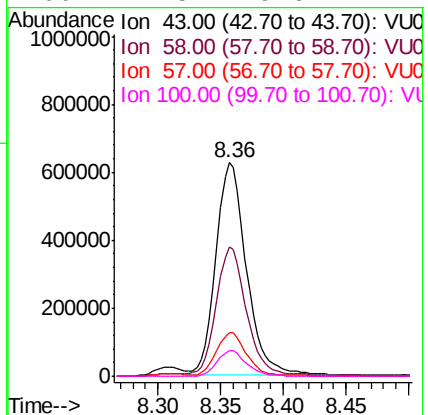
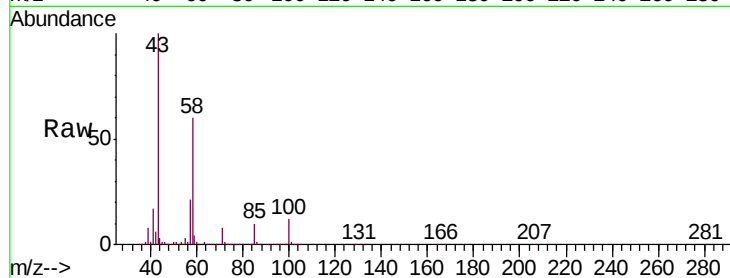




#48
2-Hexanone
Concen: 98.426 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032040.D
Acq: 15 May 2019 19:19

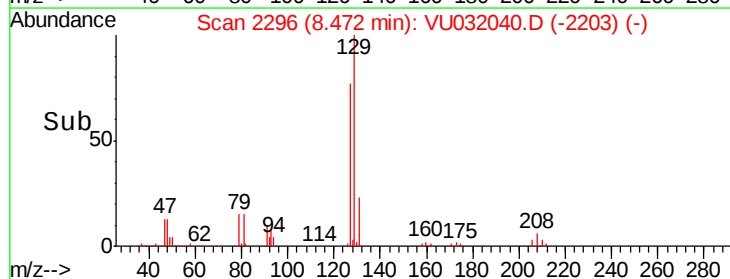
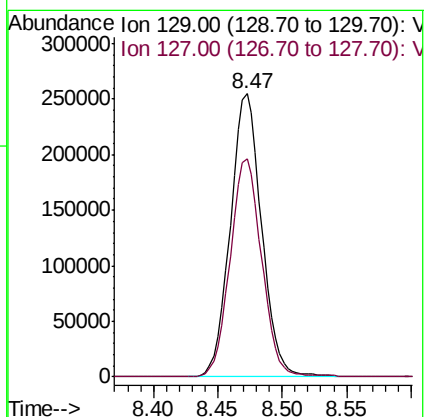
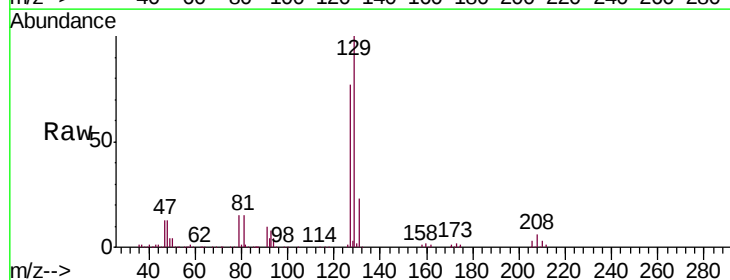
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

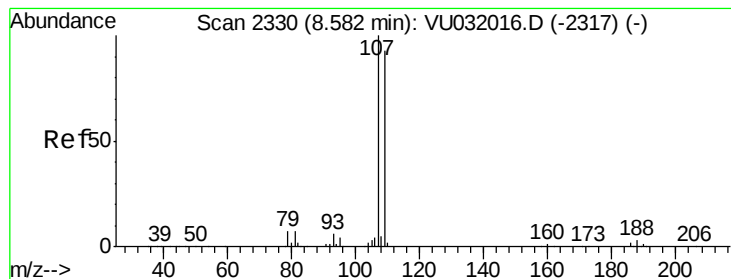
Tgt Ion: 43 Resp: 1058608
Ion Ratio Lower Upper
43 100
58 59.6 47.8 71.6
57 20.8 16.0 24.0
100 11.5 9.6 14.4



#49
Dibromochloromethane
Concen: 47.790 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032040.D
Acq: 15 May 2019 19:19

Tgt Ion: 129 Resp: 429299
Ion Ratio Lower Upper
129 100
127 77.1 53.8 99.8





#50

1,2-Dibromoethane

Concen: 47.290 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

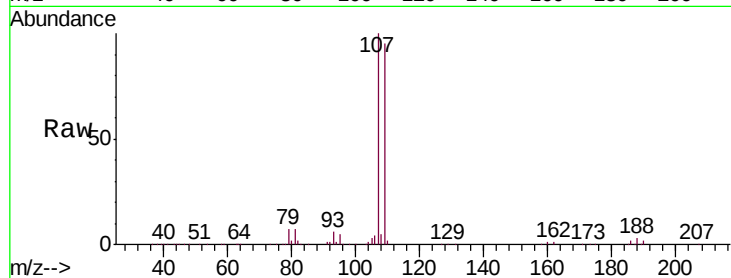
Tgt Ion:107 Resp: 448175

Ion Ratio Lower Upper

107 100

109 95.3 66.0 122.6

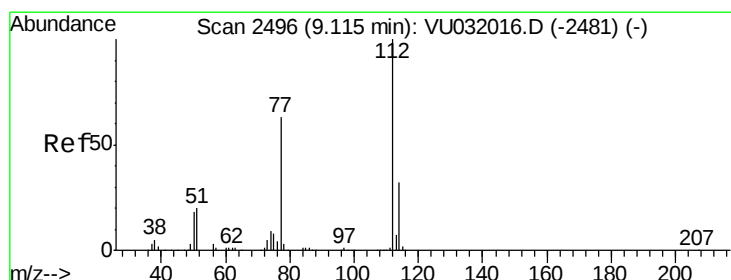
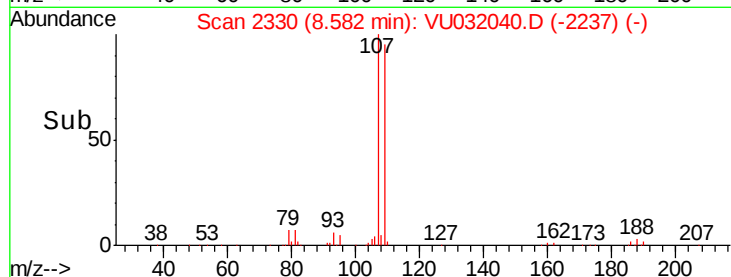
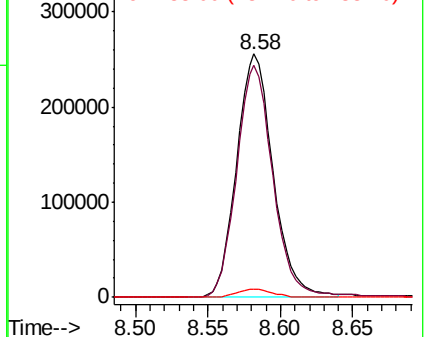
188 3.4 2.7 4.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 46.538 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

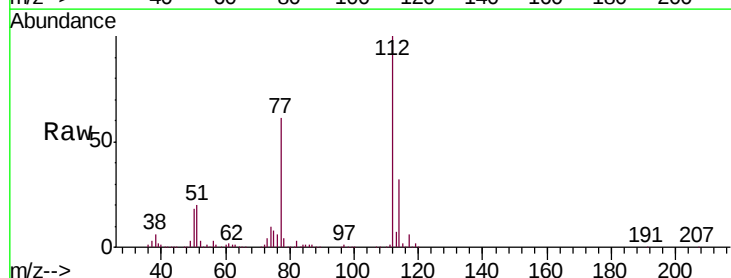
Tgt Ion:112 Resp: 1102579

Ion Ratio Lower Upper

112 100

114 31.5 22.1 41.1

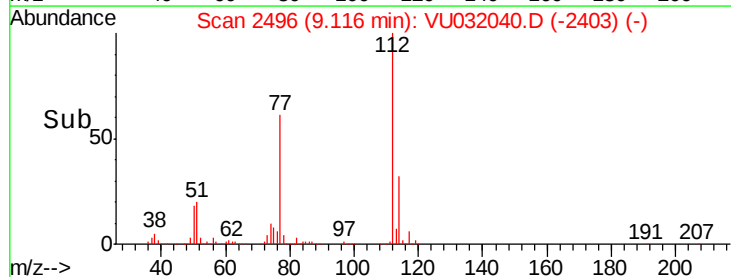
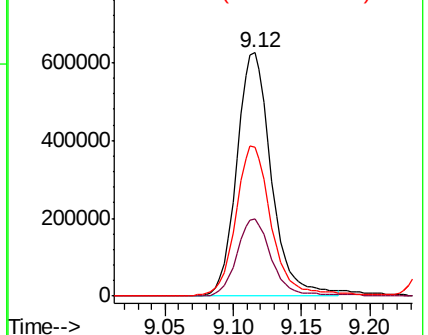
77 61.4 49.5 74.3

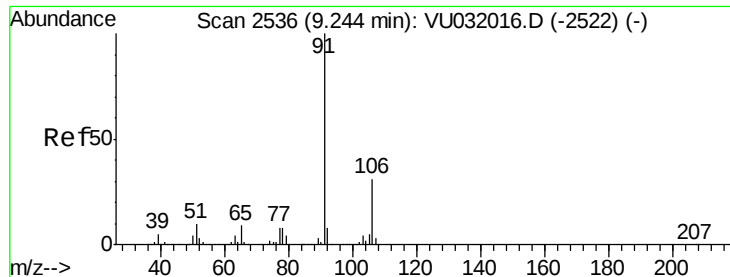


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 49.624 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

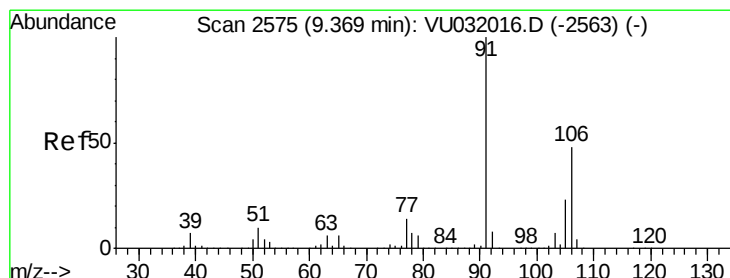
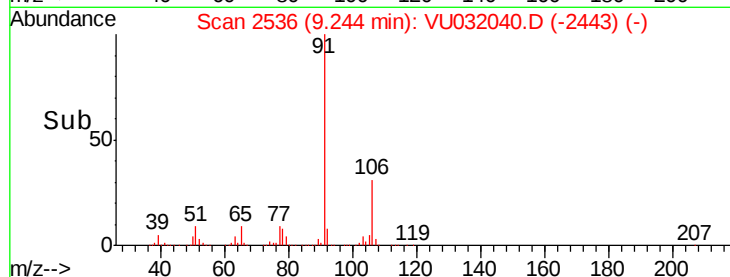
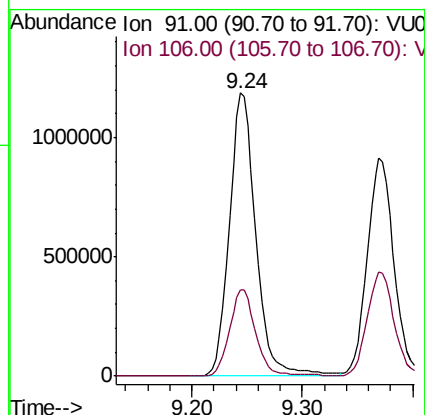
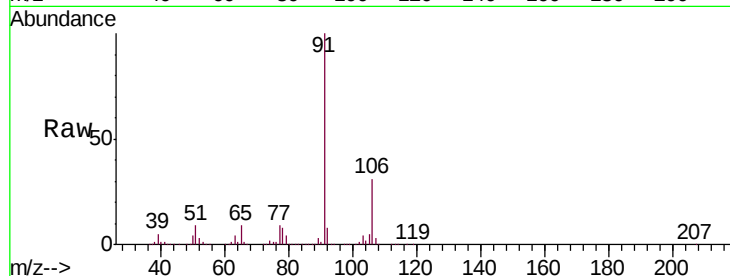
VSTD05047

Tgt Ion: 91 Resp: 1981539

Ion Ratio Lower Upper

91 100

106 30.7 21.3 39.5



#53

m,p-Xylene

Concen: 49.884 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032040.D

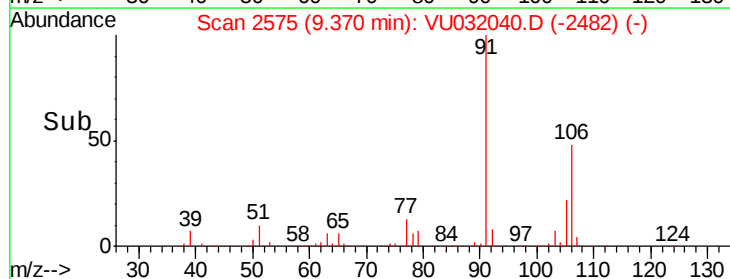
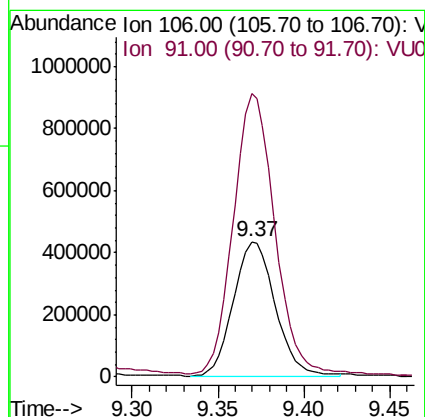
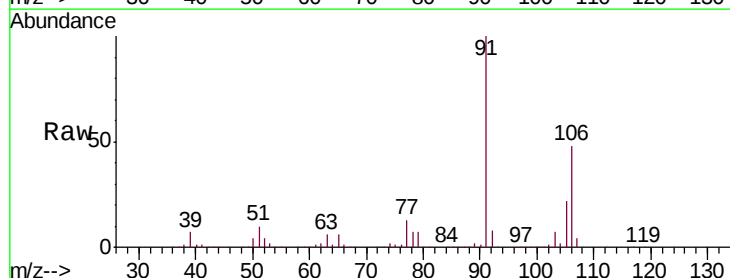
Acq: 15 May 2019 19:19

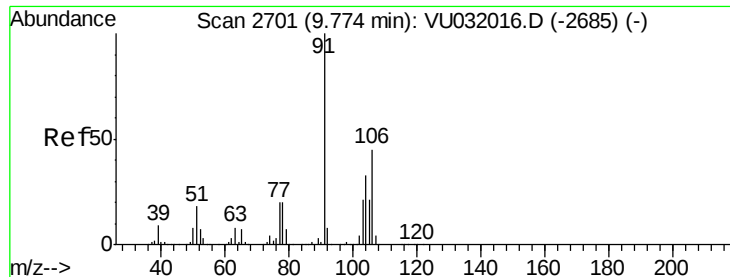
Tgt Ion: 106 Resp: 726932

Ion Ratio Lower Upper

106 100

91 209.8 144.8 269.0





#54

o-xylene

Concen: 51.934 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

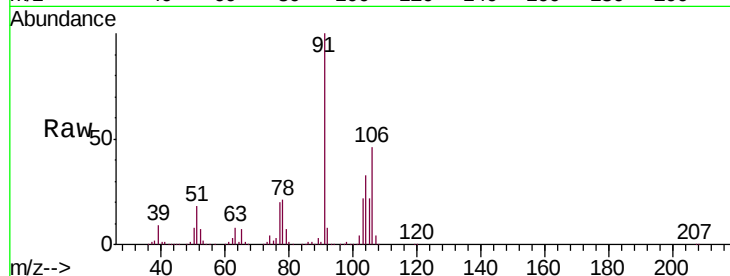
VSTD05047

Tgt Ion:106 Resp: 747250

Ion Ratio Lower Upper

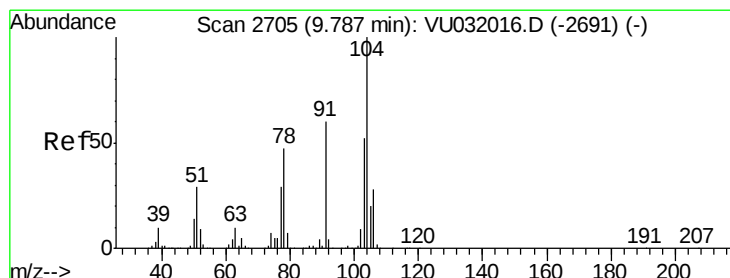
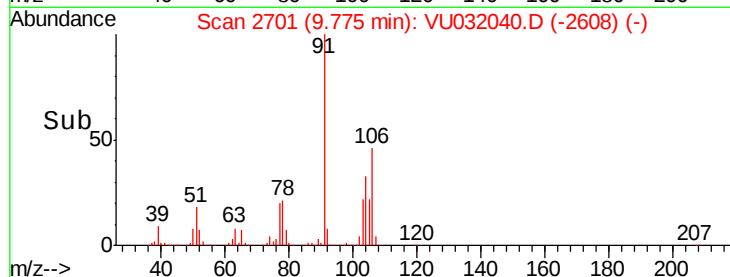
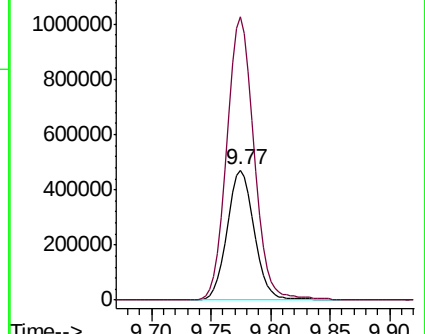
106 100

91 217.4 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.050 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032040.D

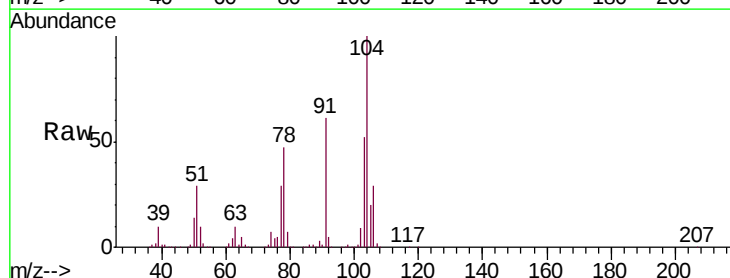
Acq: 15 May 2019 19:19

Tgt Ion:104 Resp: 1285574

Ion Ratio Lower Upper

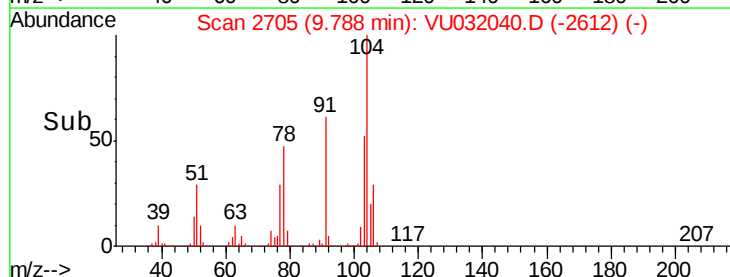
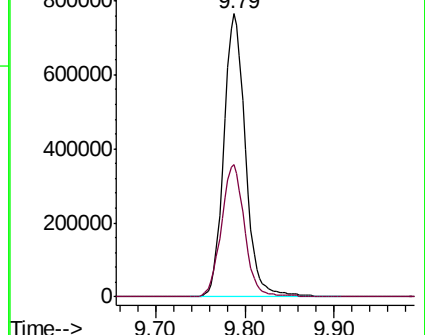
104 100

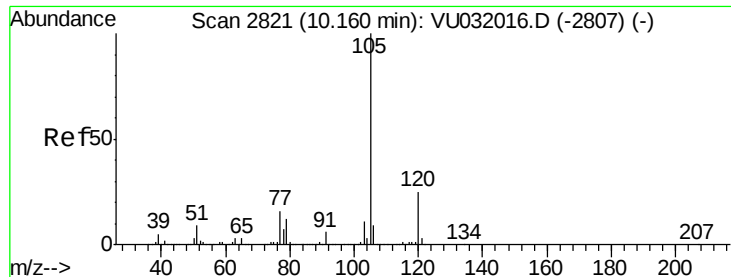
78 46.7 33.2 61.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.722 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

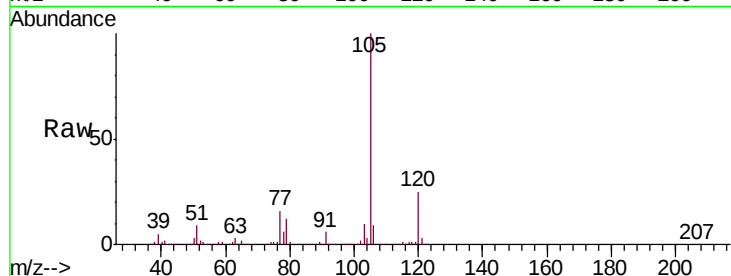
Tgt Ion:105 Resp: 1906795

Ion Ratio Lower Upper

105 100

120 25.4 20.5 30.7

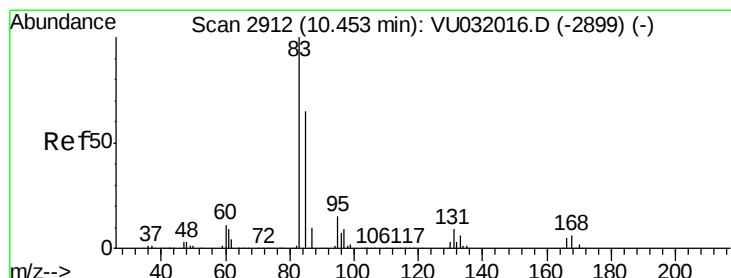
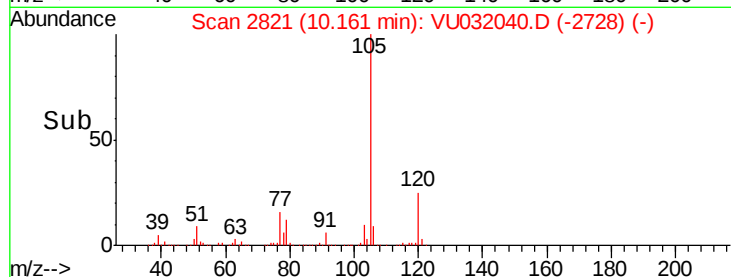
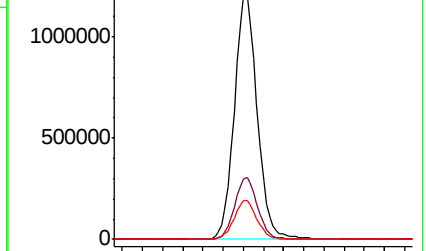
77 15.8 13.0 19.4



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: 45.910 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

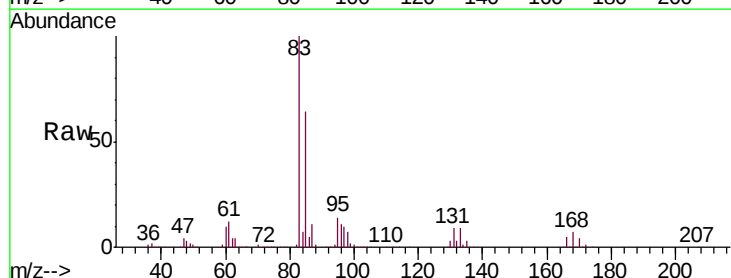
Tgt Ion: 83 Resp: 742113

Ion Ratio Lower Upper

83 100

85 64.1 45.8 85.2

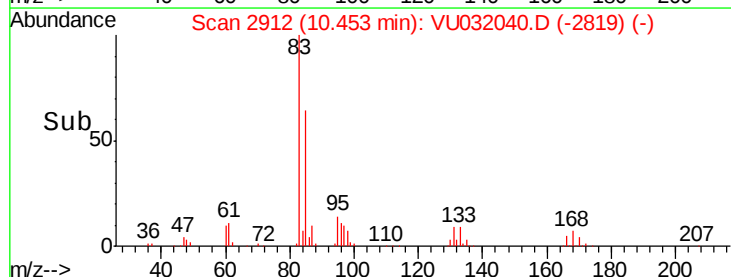
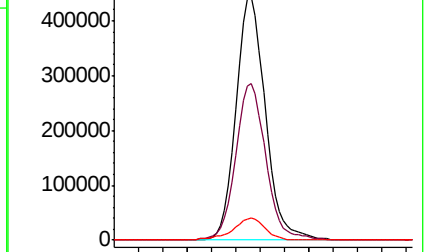
131 9.2 7.0 10.4

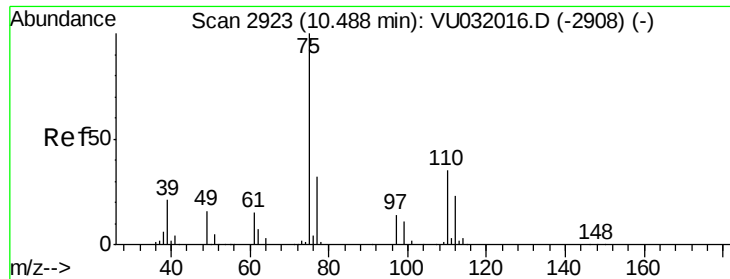


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.465 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

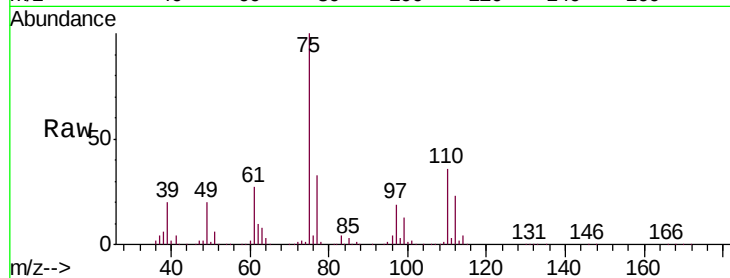
VSTD05047

Tgt Ion: 75 Resp: 591947

Ion Ratio Lower Upper

75 100

77 32.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU032016.D (-2908) (-)

Ion 77.00 (76.70 to 77.70): VU032016.D (-2908) (-)

10.49

400000

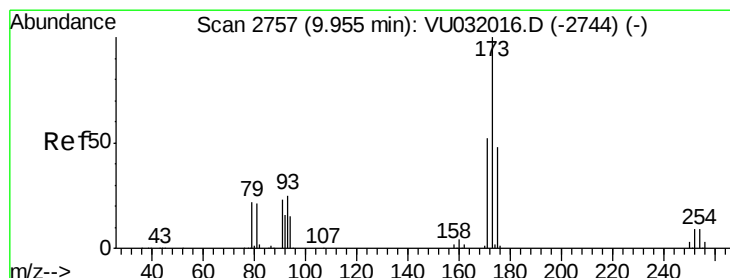
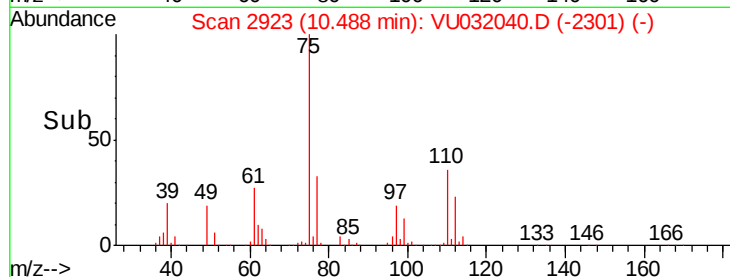
300000

200000

100000

0

Time-->



#61

Bromoform

Concen: 45.567 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

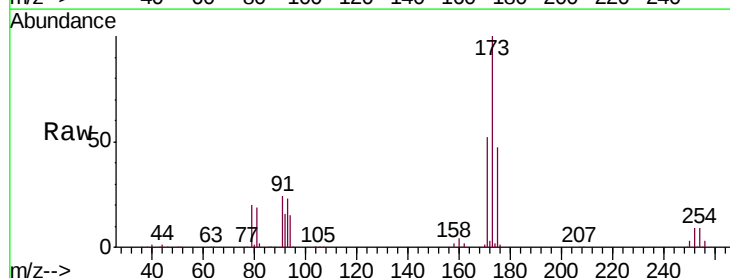
Tgt Ion: 173 Resp: 302479

Ion Ratio Lower Upper

173 100

175 49.2 38.4 57.6

254 8.8 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VU032016.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU032016.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU032016.D (-2744) (-)

9.95

250000

200000

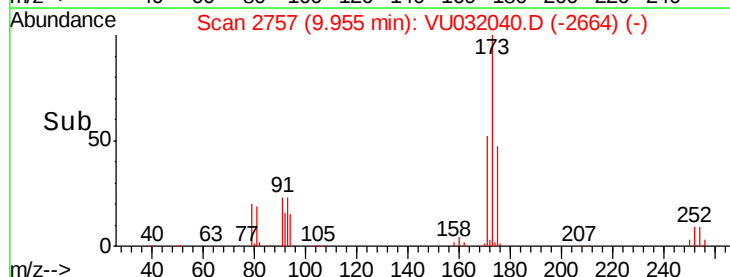
150000

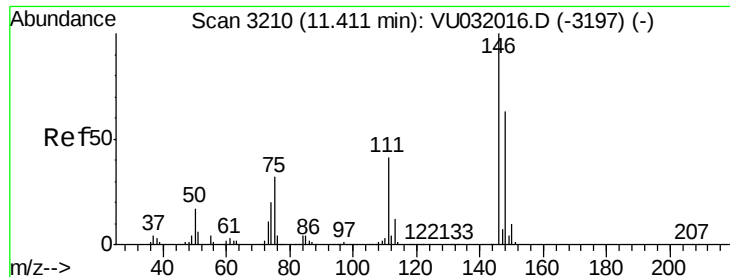
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.119 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

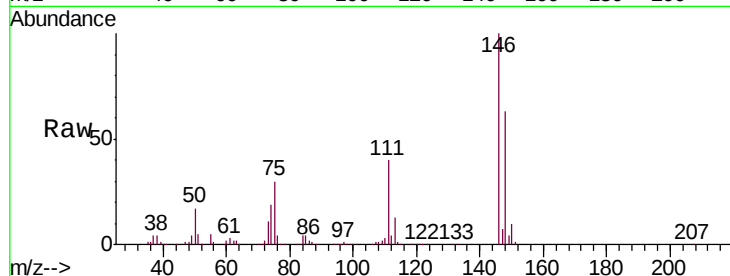
Tgt Ion:146 Resp: 799306

Ion Ratio Lower Upper

146 100

111 40.4 29.0 53.9

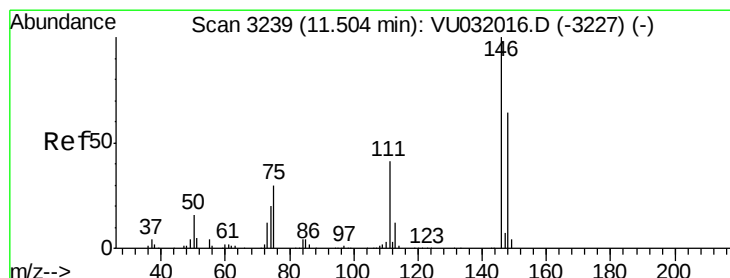
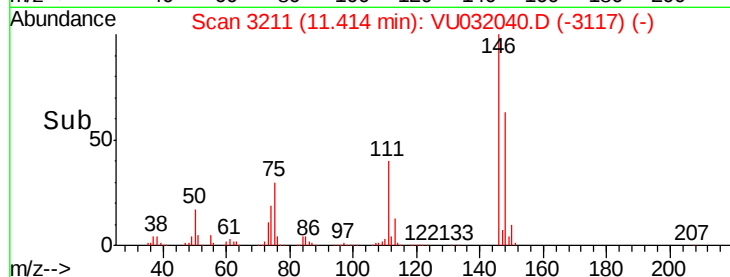
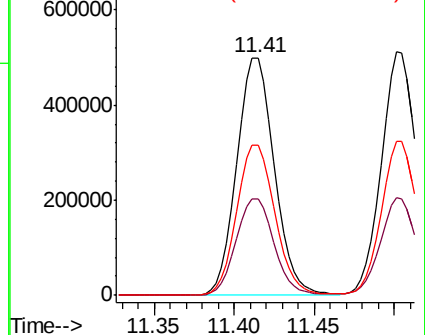
148 63.0 43.3 80.3



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: 47.190 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

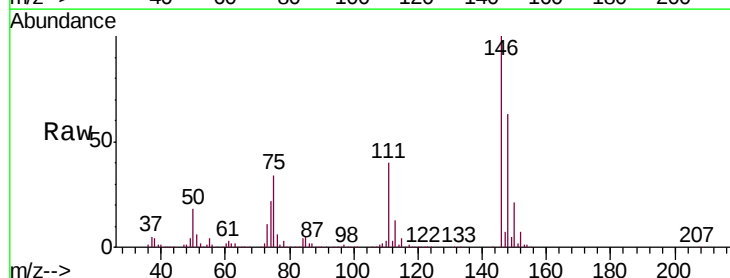
Tgt Ion:146 Resp: 812262

Ion Ratio Lower Upper

146 100

111 40.3 27.9 51.7

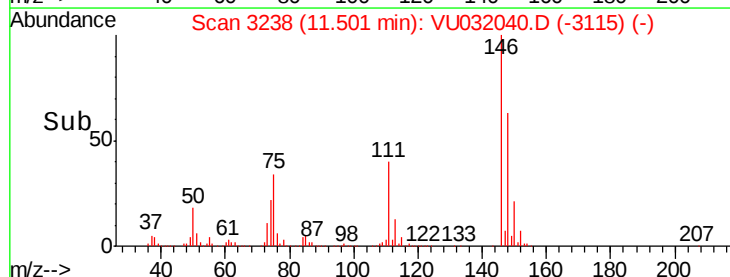
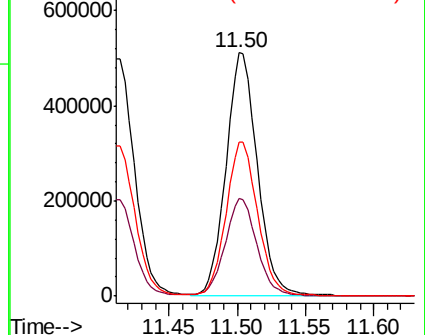
148 63.3 44.7 83.1

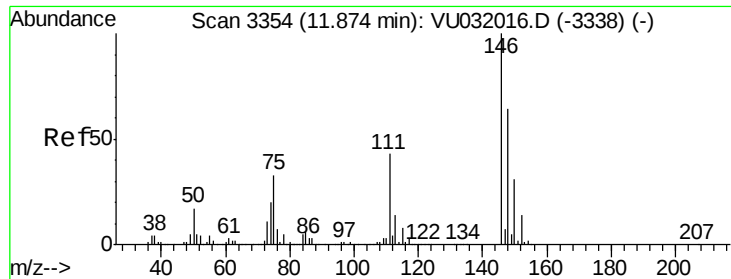


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

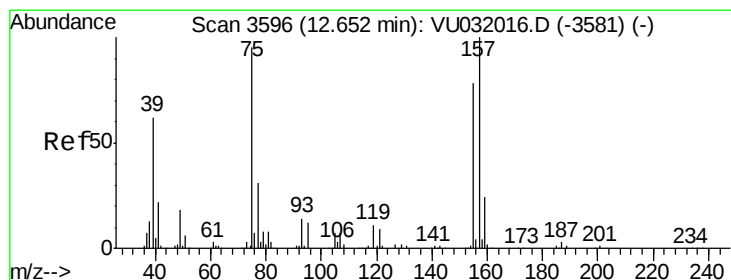
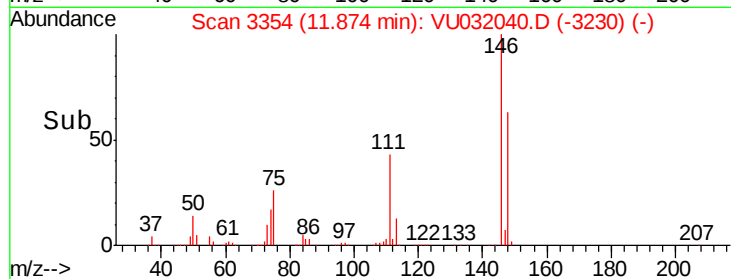
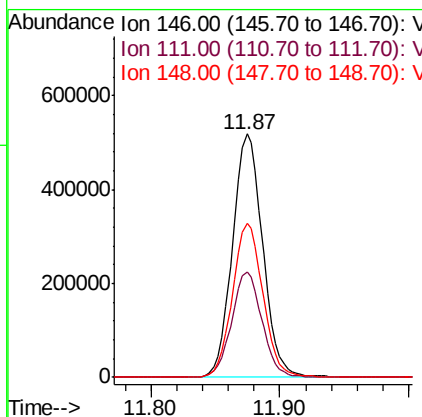
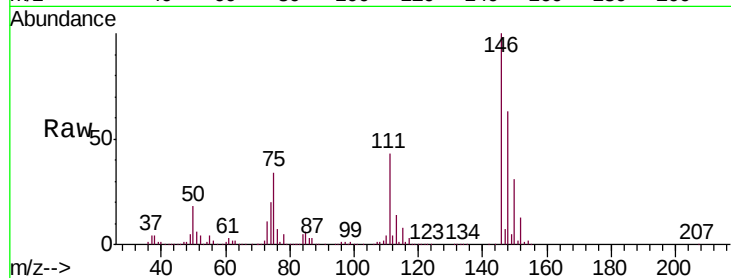




#65
 1,2-Dichlorobenzene
 Concen: 48.850 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

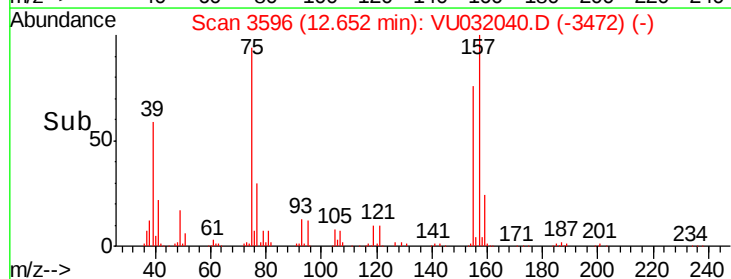
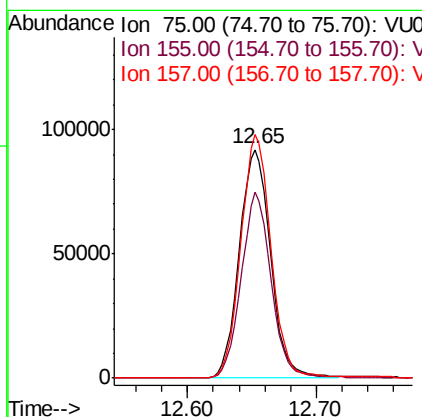
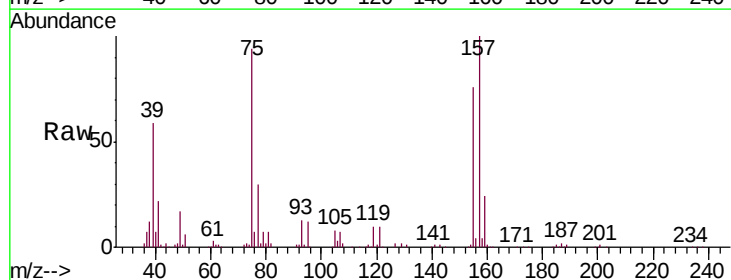
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

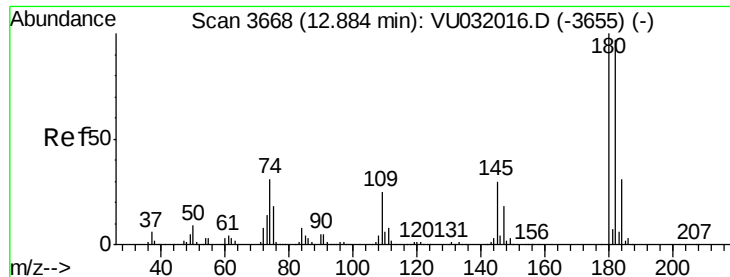
Tgt Ion: 146 Resp: 842380
 Ion Ratio Lower Upper
 146 100
 111 43.5 34.8 52.2
 148 63.1 51.4 77.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.614 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

Tgt Ion: 75 Resp: 155291
 Ion Ratio Lower Upper
 75 100
 155 81.2 63.8 95.8
 157 106.6 80.2 120.2

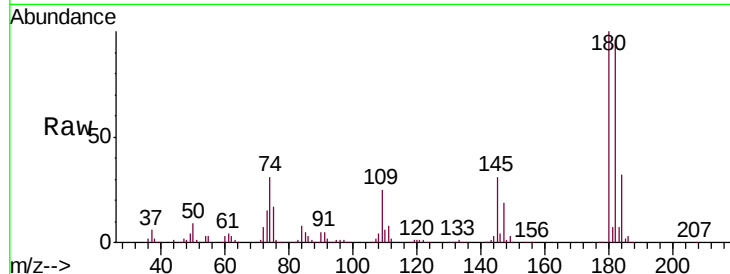




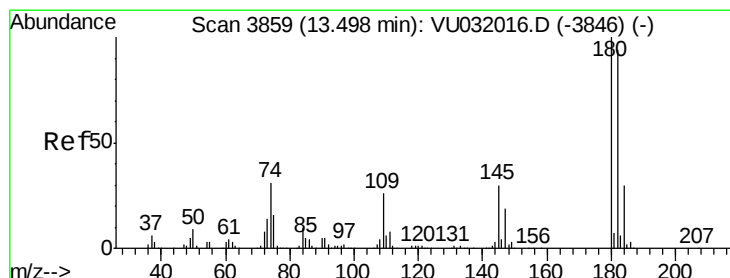
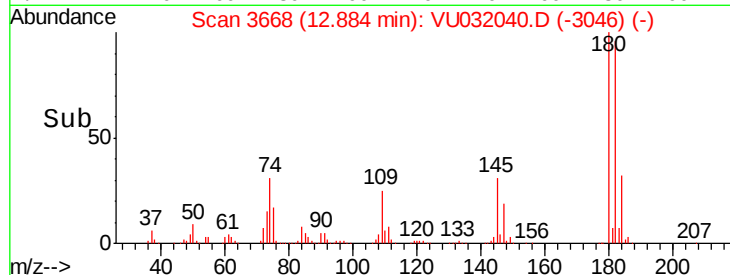
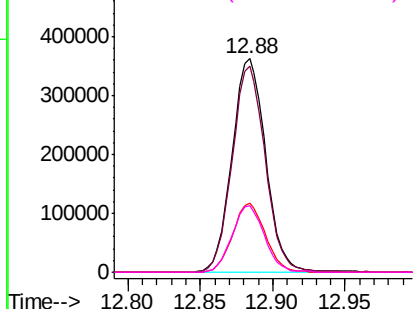
#67
 1,3,5-Trichlorobenzene
 Concen: 50.053 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05047

Tgt Ion:180 Resp: 584129
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.4 114.6
 184 31.3 24.7 37.1
 145 30.1 23.9 35.9

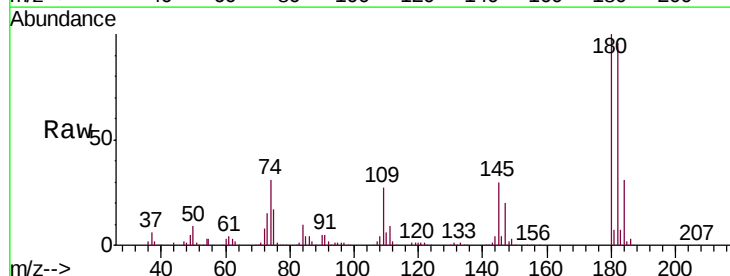


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

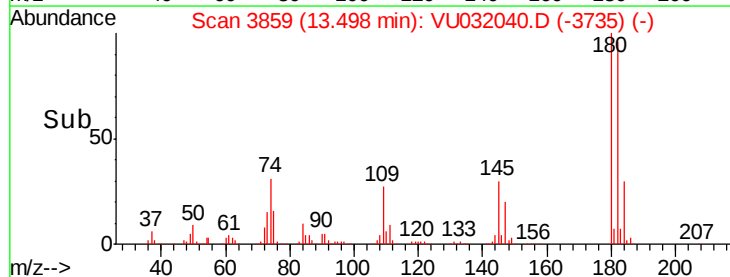
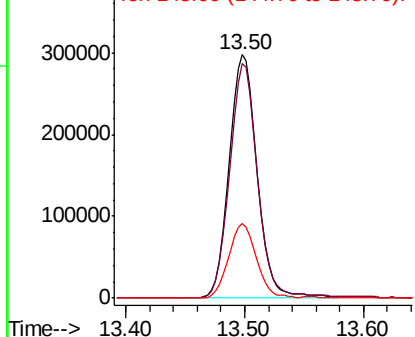


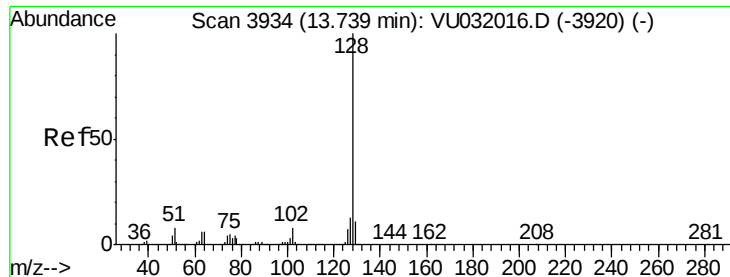
#68
 1,2,4-trichlorobenzene
 Concen: 54.006 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032040.D
 Acq: 15 May 2019 19:19

Tgt Ion:180 Resp: 485444
 Ion Ratio Lower Upper
 180 100
 182 94.9 76.1 114.1
 145 30.1 24.0 36.0



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





#69

Naphthalene

Concen: 57.573 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

Instrument :

MSVOA_U

ClientSampled :

VSTD05047

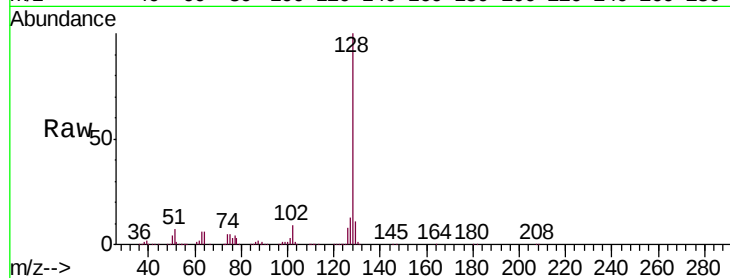
Tgt Ion:128 Resp: 1723023

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

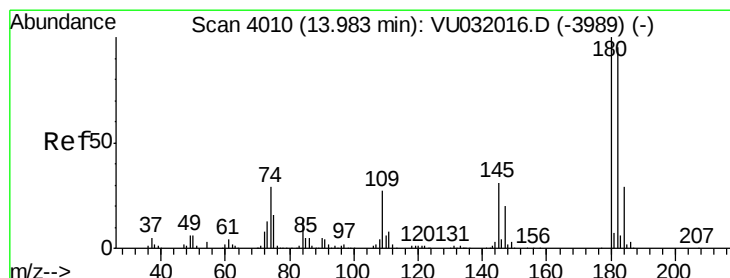
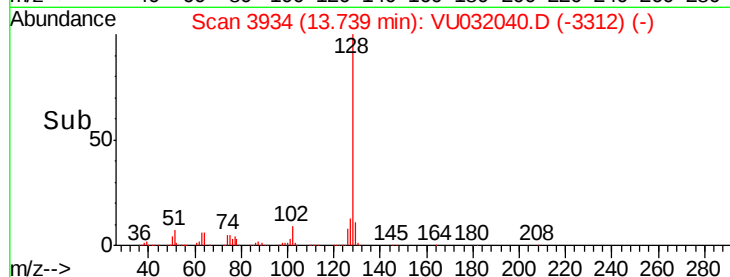
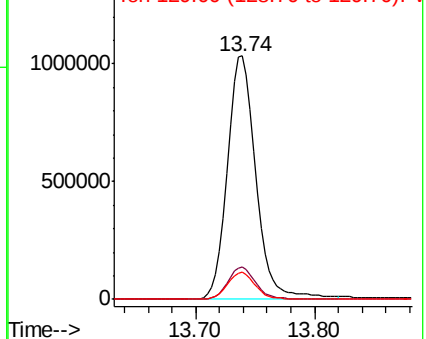
129 10.7 8.6 13.0



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: 54.571 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032040.D

Acq: 15 May 2019 19:19

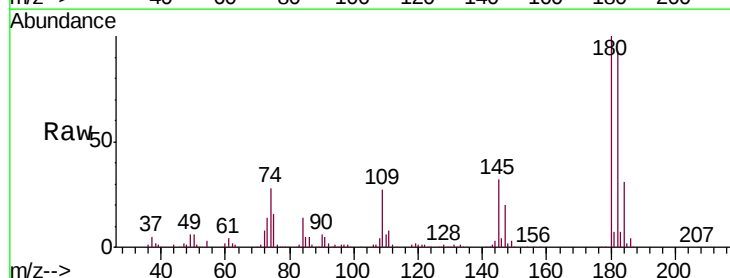
Tgt Ion:180 Resp: 533971

Ion Ratio Lower Upper

180 100

182 93.5 75.8 113.6

145 32.0 25.5 38.3



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

