

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035941.D
 Acq On : 03 Dec 2019 11:19
 Operator : JC/SP
 Sample : VSTD00105
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

Quant Time: Dec 03 18:02:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 03 17:59:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	313165	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	326005	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	125525	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	36411	1.11	ug/L	0.00
7) Chloroethane-d5	1.93	69	27959	1.05	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	51058	0.96	ug/L	0.00
20) 2-Butanone-d5	4.70	46	53031	7.62	ug/L	0.00
24) Chloroform-d	5.11	84	49036	0.97	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	25673	0.97	ug/L	0.00
32) Benzene-d6	5.77	84	89456	0.89	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	30787	0.95	ug/L	0.00
41) Toluene-d8	7.93	98	78088	0.82	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	12049	0.92	ug/L	0.00
46) 2-Hexanone-d5	8.68	63	33210	6.48	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	24070	0.88	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	25094	1.01	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	29530	0.883 ug/L	96
3) Chloromethane	1.54	50	35352	0.923 ug/L	98
5) Vinyl chloride	1.62	62	35306	0.899 ug/L	92
6) Bromomethane	1.87	94	20476	0.915 ug/L	90
8) Chloroethane	1.95	64	22532	0.996 ug/L	94
9) Trichlorofluoromethane	2.16	101	41370	0.869 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	23491	0.844 ug/L	96
12) 1,1-Dichloroethene	2.60	96	20569	0.772 ug/L #	84
13) Acetone	2.69	43	61571	11.949 ug/L	88
14) Carbon disulfide	2.82	76	74059	0.854 ug/L	99
15) Methyl Acetate	3.00	43	8912	0.764 ug/L	100
16) Methylene chloride	3.08	84	36041	1.128 ug/L	95
17) Methyl tert-butyl Ether	3.42	73	44640	0.721 ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	21590	0.788 ug/L	95
19) 1,1-Dichloroethane	3.92	63	43617	0.851 ug/L	96
21) 2-Butanone	4.79	43	61493	8.184 ug/L	92
22) cis-1,2-Dichloroethene	4.71	96	22446	0.749 ug/L	99
23) Bromochloromethane	5.02	128	10499	0.738 ug/L	90
25) Chloroform	5.13	83	44337	0.796 ug/L	99
27) 1,2-Dichloroethane	5.84	62	27110	0.864 ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	37222	0.887 ug/L	95
30) Cyclohexane	5.43	56	29601	0.705 ug/L	97
31) Carbon tetrachloride	5.57	117	33128	0.881 ug/L	97
33) Benzene	5.82	78	89496	0.795 ug/L	100
34) Trichloroethene	6.58	95	23032	0.807 ug/L	99
35) Methylcyclohexane	6.80	83	29493	0.678 ug/L	94
37) 1,2-Dichloropropane	6.83	63	25016	0.843 ug/L #	97
38) Bromodichloromethane	7.14	83	30418	0.846 ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	27599	0.657 ug/L	88
40) 4-Methyl-2-pentanone	7.84	43	126117	7.357 ug/L	95

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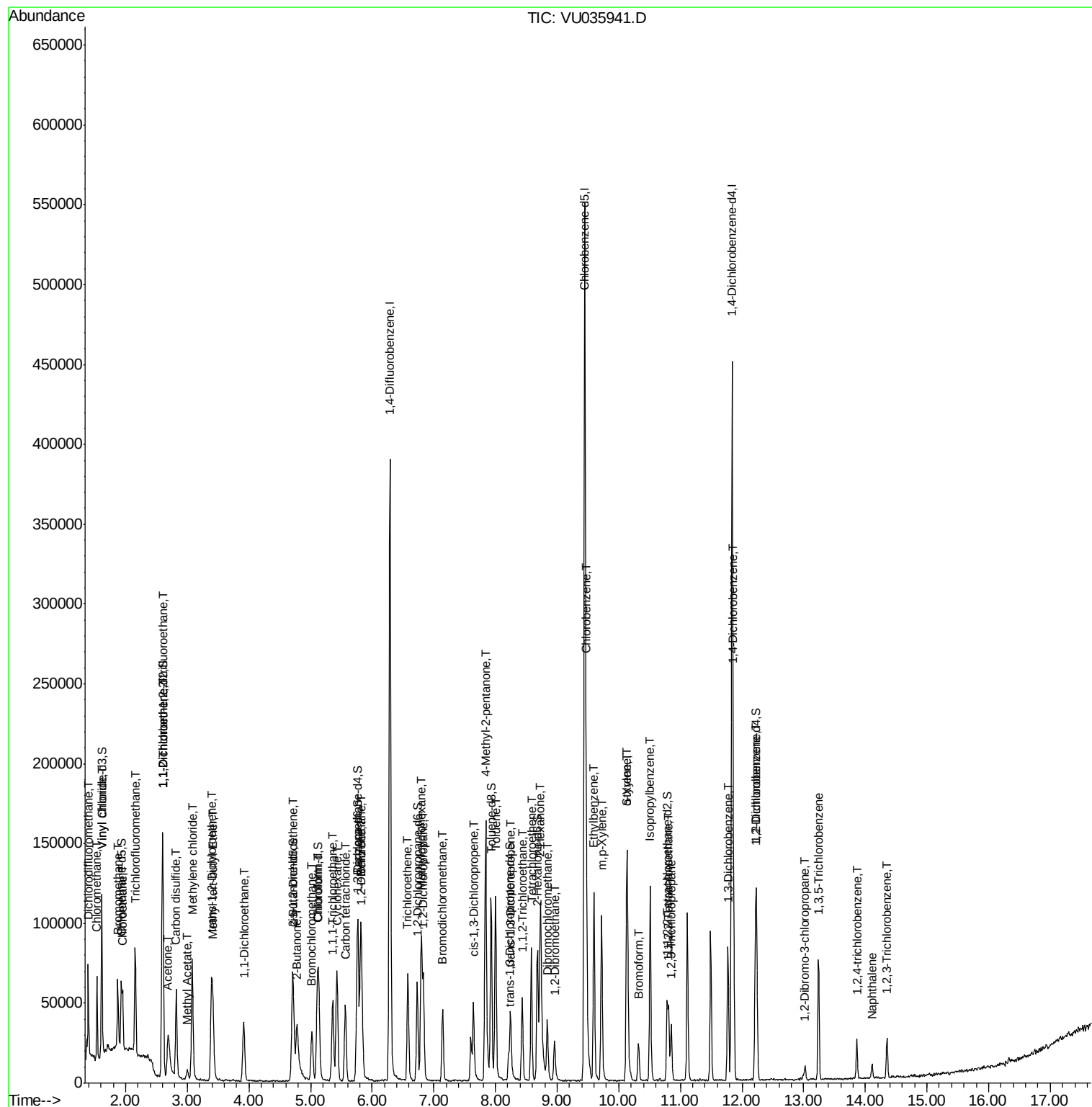
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	86407	0.733	ug/L	100
44) trans-1,3-Dichloropropene	8.25	75	26759	0.794	ug/L	99
45) 1,1,2-Trichloroethane	8.44	97	16753	0.793	ug/L	98
47) Tetrachloroethene	8.58	164	19046	0.775	ug/L	94
48) 2-Hexanone	8.73	43	81830	6.649	ug/L	92
49) Dibromochloromethane	8.84	129	19944	0.773	ug/L	90
50) 1,2-Dibromoethane	8.96	107	15379	0.766	ug/L	98
51) Chlorobenzene	9.47	112	56694	0.743	ug/L	99
52) Ethylbenzene	9.60	91	83781	0.682	ug/L	99
53) m,p-Xylene	9.72	106	30303	0.650	ug/L	97
54) o-Xylene	10.13	106	28335	0.635	ug/L	99
55) Styrene	10.14	104	44058	0.594	ug/L	98
56) Isopropylbenzene	10.51	105	73355	0.624	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	22457	0.810	ug/L #	96
59) 1,2,3-Trichloropropane	10.85	75	15680	0.803	ug/L	98
61) Bromoform	10.32	173	11976	1.054	ug/L	95
62) 1,3-Dichlorobenzene	11.77	146	36781	0.871	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	35854	0.881	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	36020	0.908	ug/L	94
66) 1,2-Dibromo-3-chloropropan	13.02	75	3200	1.230	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	23295	0.857	ug/L	98
68) 1,2,4-trichlorobenzene	13.86	180	7691	0.471	ug/L	97
69) Naphthalene	14.11	128	6572	0.335	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	7823	0.497	ug/L	92

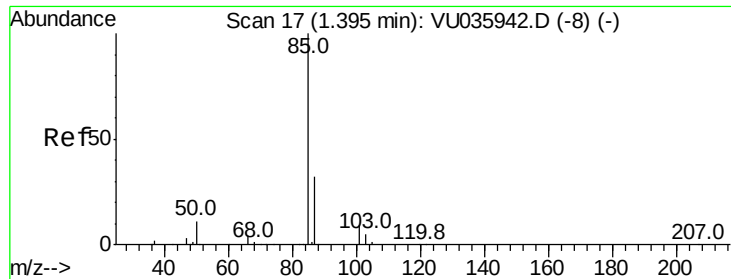
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.883 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

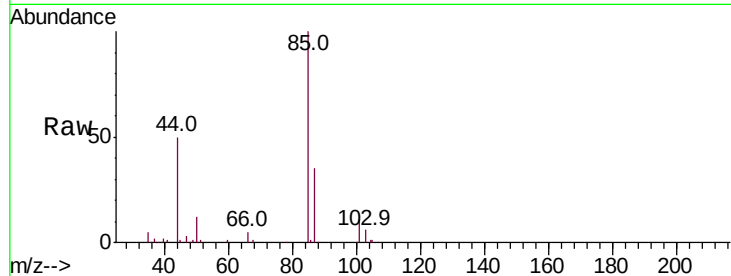
VSTD00105

Tot Ion: 85 Resp: 29530

Ion Ratio Lower Upper

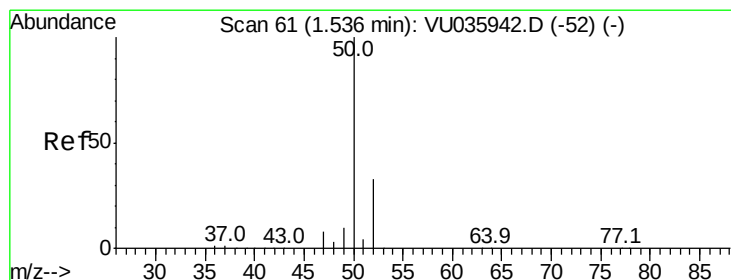
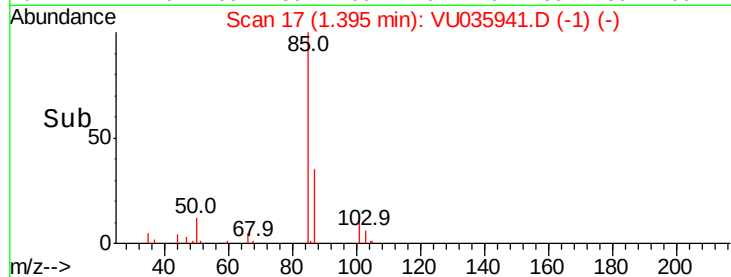
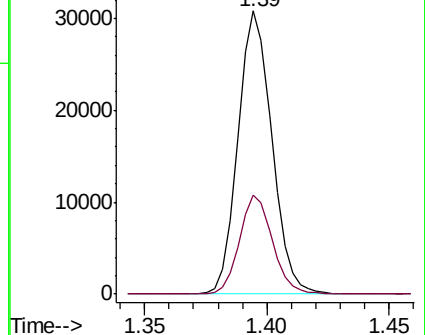
85 100

87 34.0 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU035941.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU035941.D (-8) (-)



#3

Chloromethane

Concen: 0.923 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035941.D

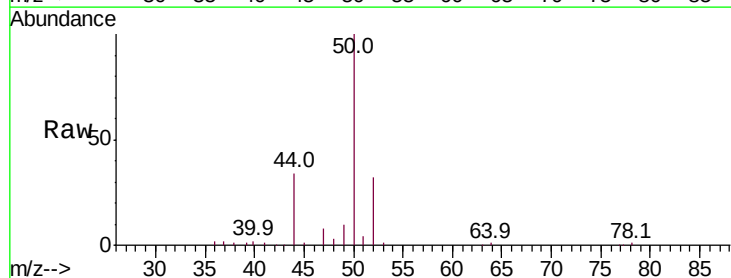
Acq: 03 Dec 2019 11:19

Tgt Ion: 50 Resp: 35352

Ion Ratio Lower Upper

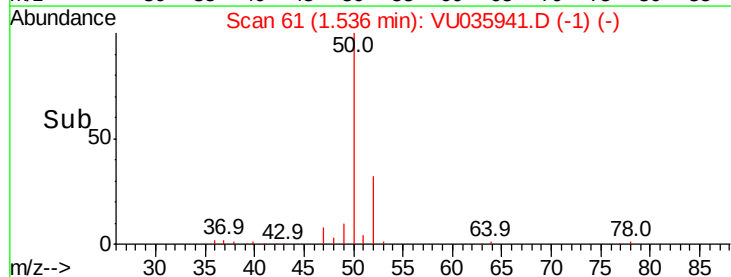
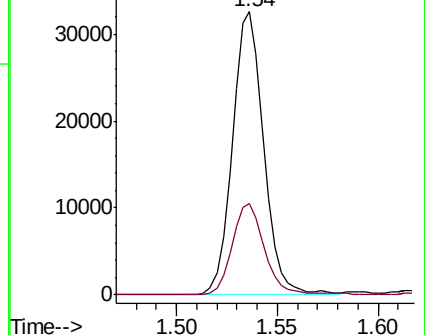
50 100

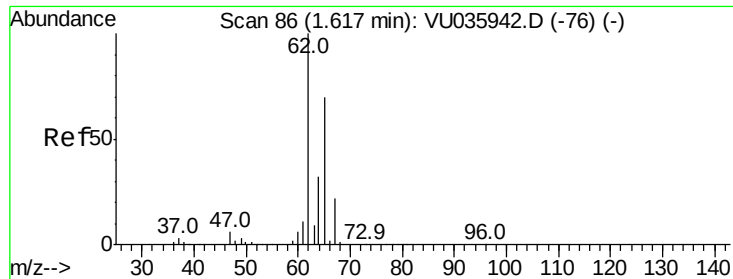
52 32.1 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU035941.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU035941.D (-52) (-)





#5

Vinyl chloride

Concen: 0.899 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

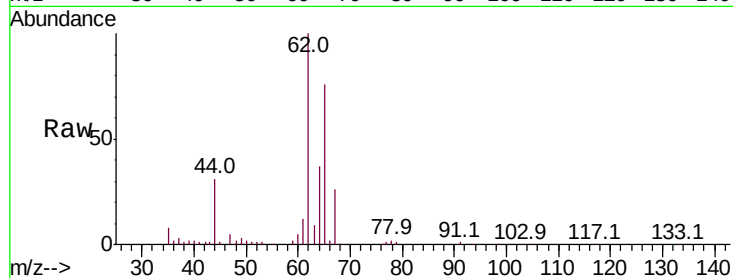
VSTD00105

Tot Ion: 62 Resp: 35306

Ion Ratio Lower Upper

62 100

64 37.3 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU035941.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU035941.D (-76) (-)

1.62

30000

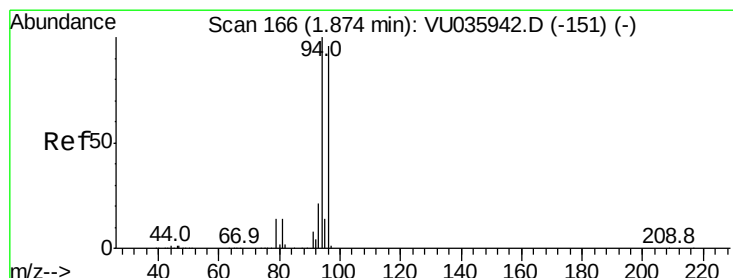
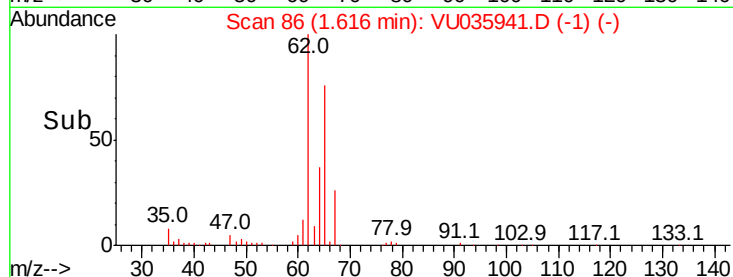
20000

10000

0

1.55 1.60 1.65

Time-->



#6

Bromomethane

Concen: 0.915 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035941.D

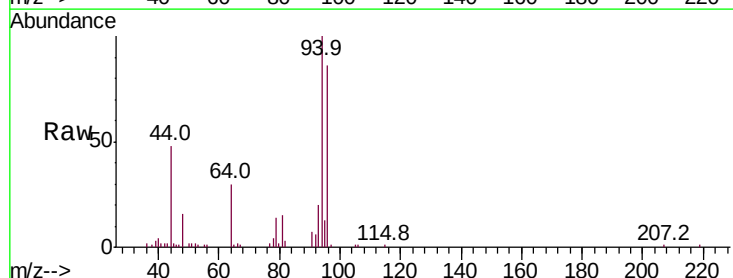
Acq: 03 Dec 2019 11:19

Tgt Ion: 94 Resp: 20476

Ion Ratio Lower Upper

94 100

96 85.9 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU035941.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU035941.D (-151) (-)

1.87

15000

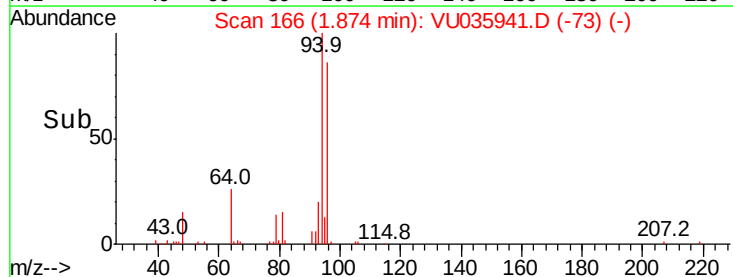
10000

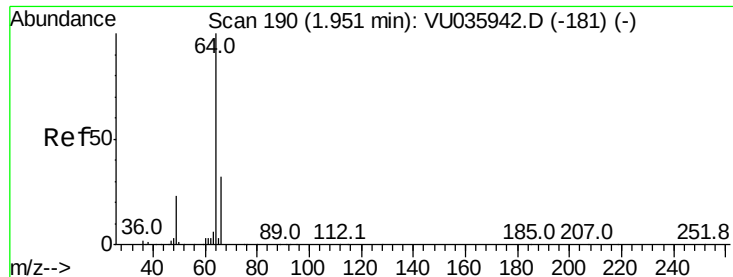
5000

0

1.80 1.85 1.90

Time-->





#8

Chloroethane

Concen: 0.996 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

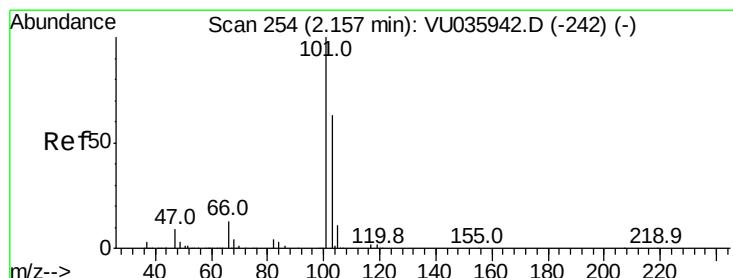
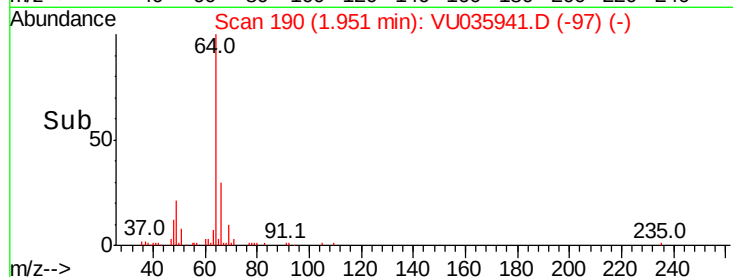
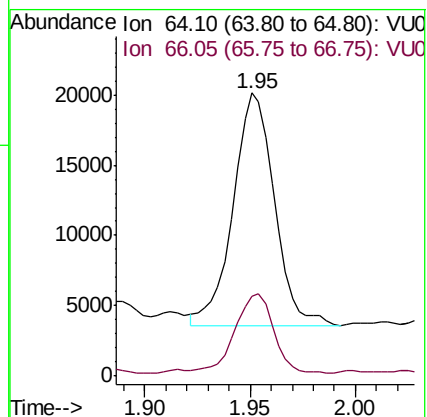
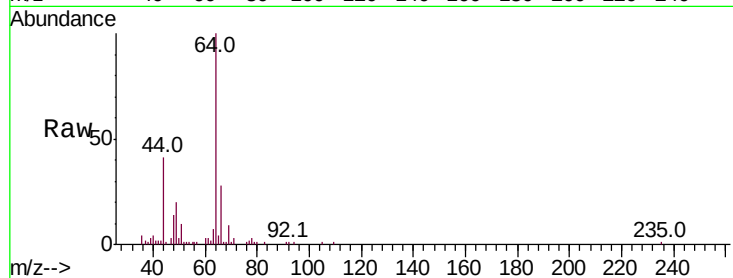
VSTD00105

Tot Ion: 64 Resp: 22532

Ion Ratio Lower Upper

64 100

66 28.4 22.0 40.8



#9

Trichlorofluoromethane

Concen: 0.869 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU035941.D

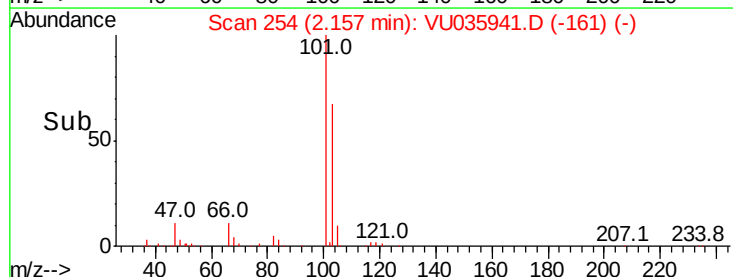
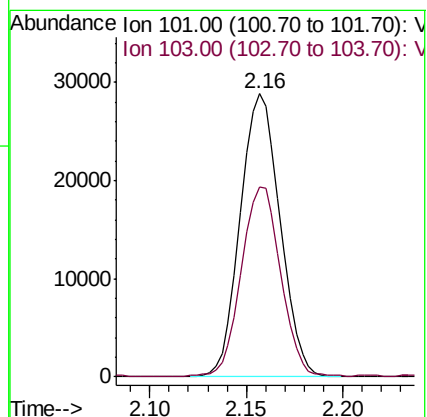
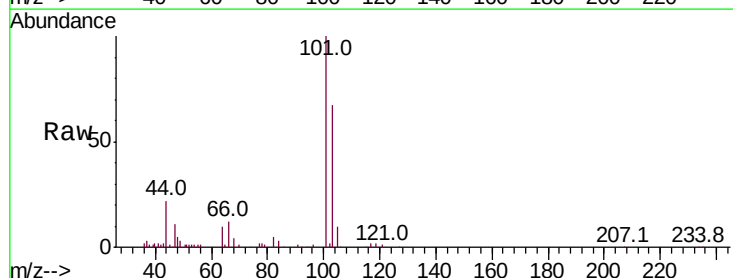
Acq: 03 Dec 2019 11:19

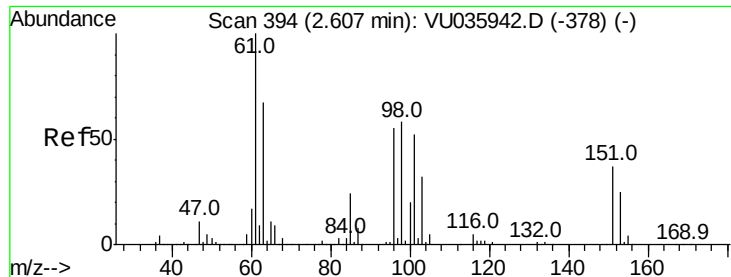
Tgt Ion: 101 Resp: 41370

Ion Ratio Lower Upper

101 100

103 66.8 51.8 77.8





#10

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

Concen: 0.844 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

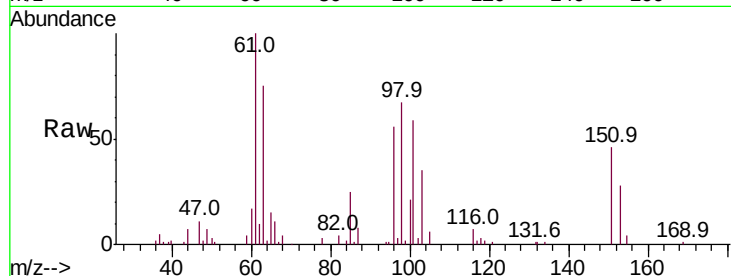
Tot Ion:101 Resp: 23491

Ion Ratio Lower Upper

101 100

85 43.7 35.5 53.3

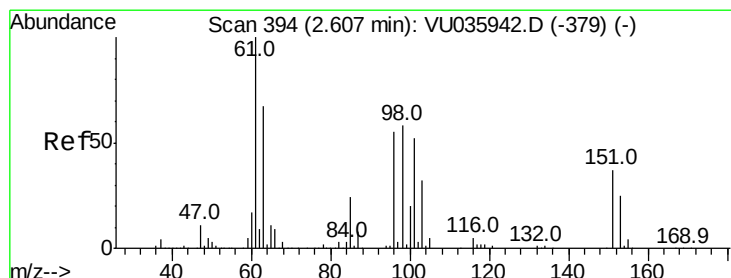
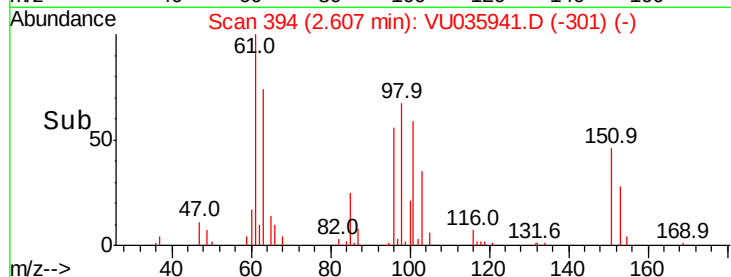
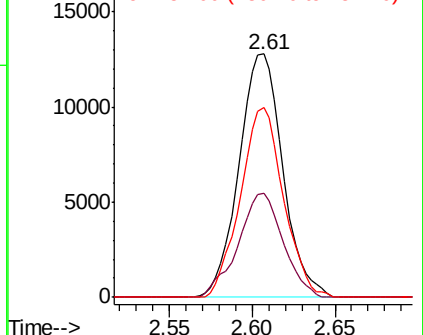
151 76.7 57.5 86.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.772 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

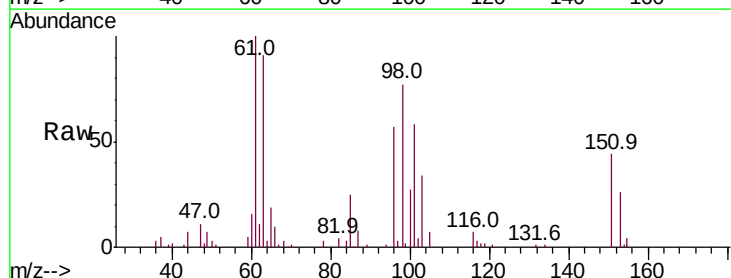
Tgt Ion: 96 Resp: 20569

Ion Ratio Lower Upper

96 100

61 175.1 127.1 236.1

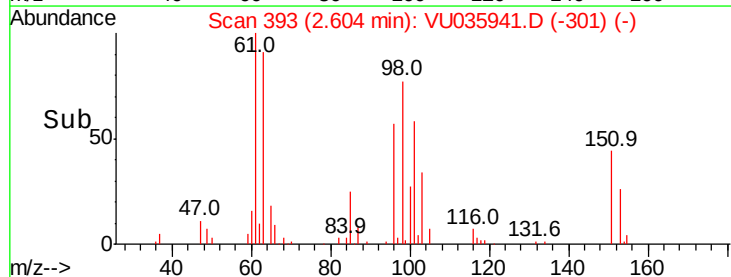
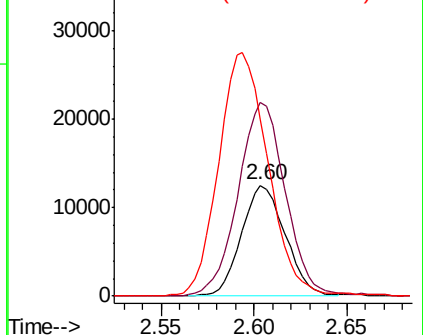
63 160.0 86.0 159.8#

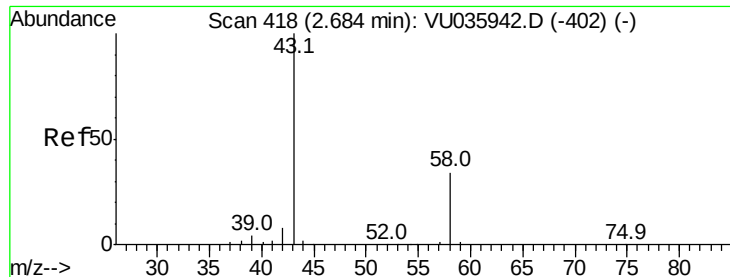


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.949 ug/L

RT: 2.69 min Scan# 420

Delta R.T. 0.01 min

Lab File: VU035941.D

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ClientSampleId :

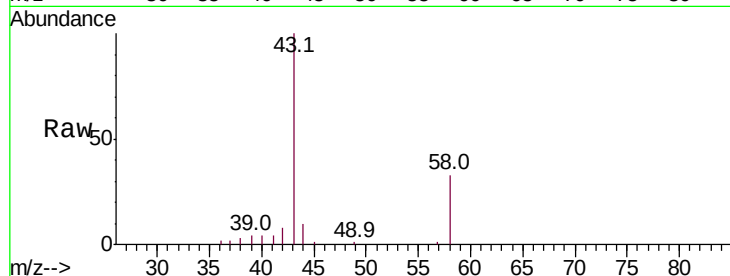
VSTD00105

Tot Ion: 43 Resp: 61571

Ion Ratio Lower Upper

43 100

58 27.6 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU035941.D (-420) (-)

Ion 58.05 (57.75 to 58.75): VU035941.D (-420) (-)

20000

15000

10000

5000

0

2.69

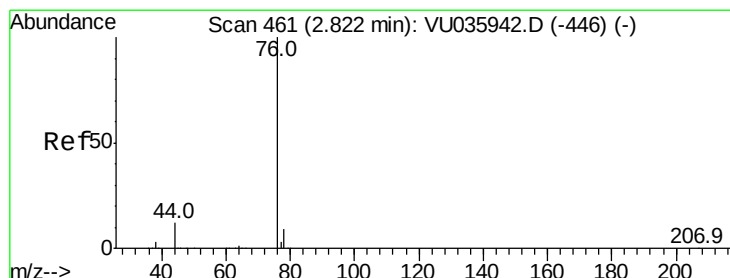
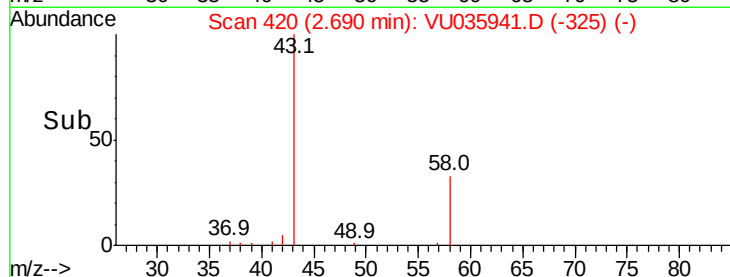
2.60

2.70

2.80

2.90

Time-->



#14

Carbon disulfide

Concen: 0.854 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035941.D

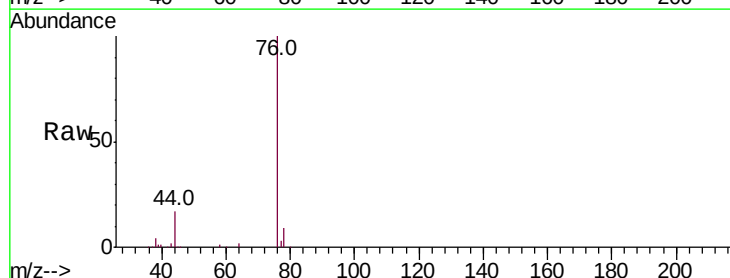
Acq: 03 Dec 2019 11:19

Tgt Ion: 76 Resp: 74059

Ion Ratio Lower Upper

76 100

78 8.8 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU035941.D (-461) (-)

Ion 78.00 (77.70 to 78.70): VU035941.D (-461) (-)

40000

30000

20000

10000

0

2.82

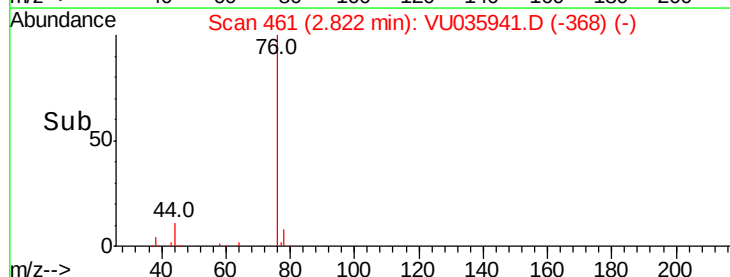
2.75

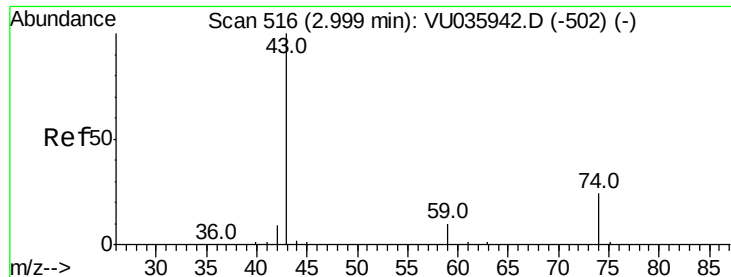
2.85

2.90

2.95

Time-->

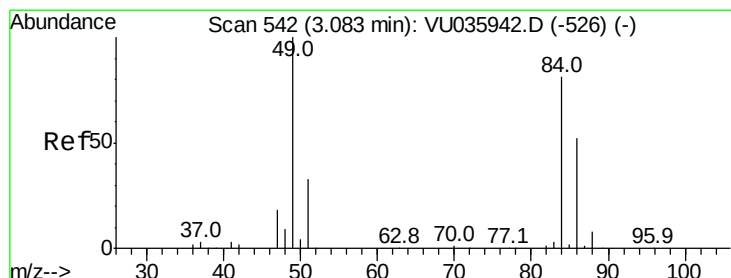
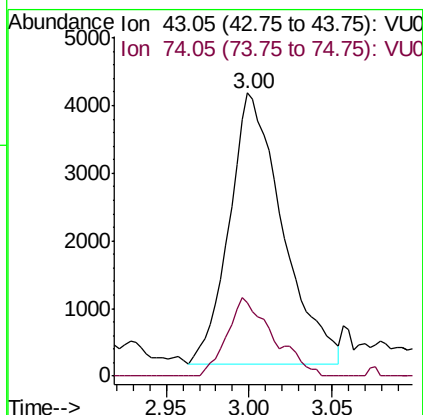
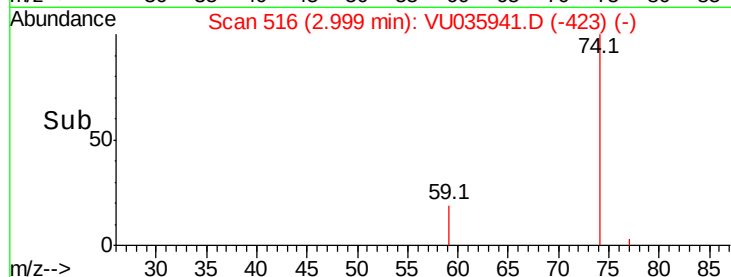
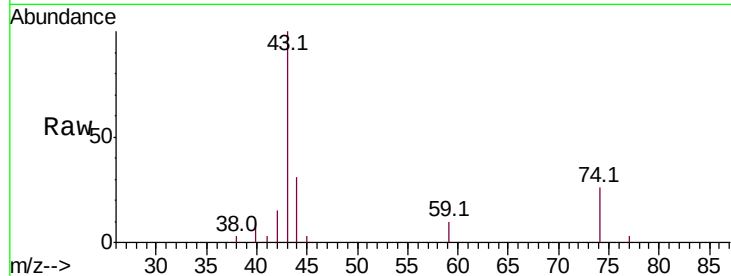




#15
Methvl Acetate
Concen: 0.764 ug/L
RT: 3.00 min Scan# 516
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

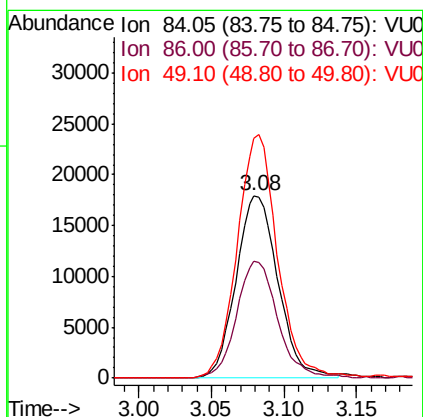
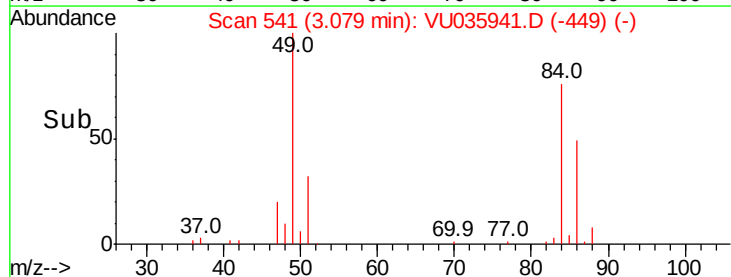
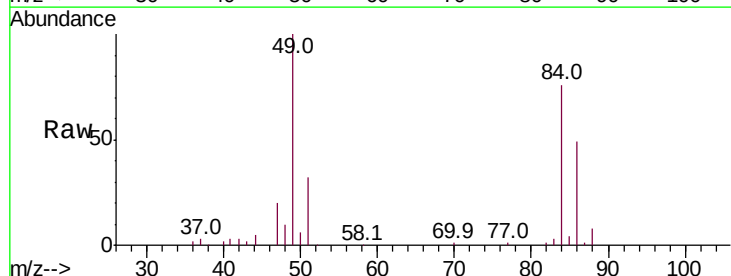
Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

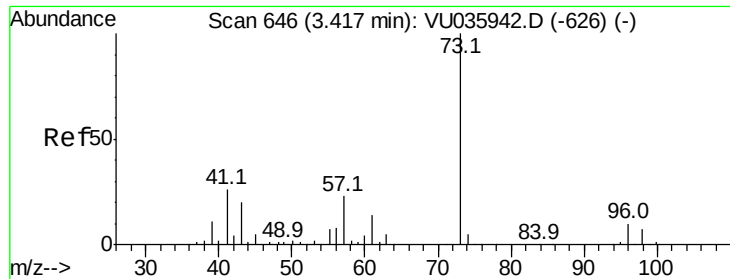
Tot Ion: 43 Resp: 8912
Ion Ratio Lower Upper
43 100
74 25.1 20.0 30.0



#16
Methylene chloride
Concen: 1.128 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

Tgt Ion: 84 Resp: 36041
Ion Ratio Lower Upper
84 100
86 63.7 44.7 82.9
49 131.2 86.2 160.2

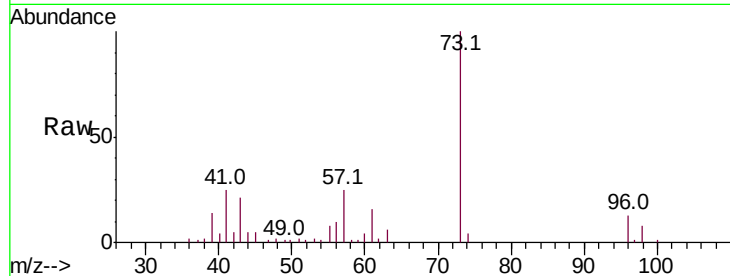




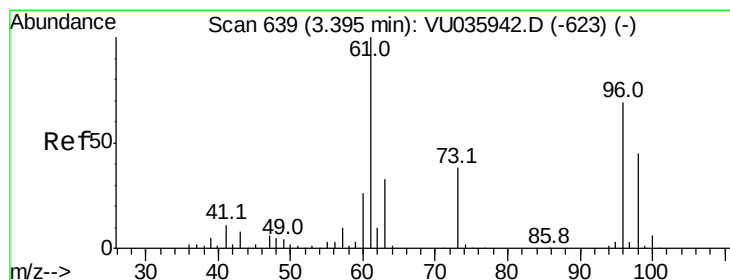
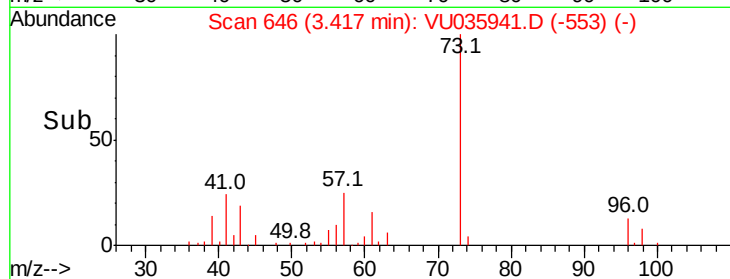
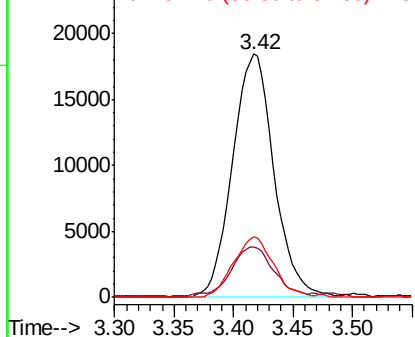
#17
Methvl tert-butyl Ether
Concen: 0.721 ug/L
RT: 3.42 min Scan# 646
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

Tot Ion: 73 Resp: 44640
Ion Ratio Lower Upper
73 100
43 21.0 15.9 23.9
57 24.1 18.8 28.2

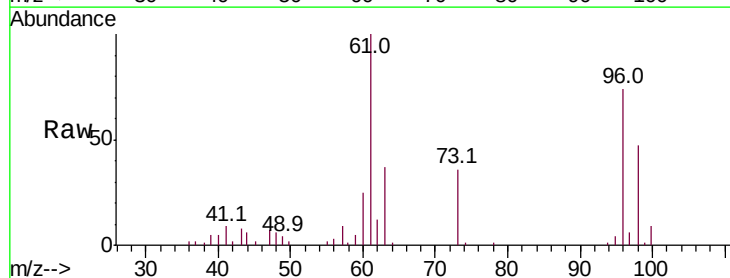


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

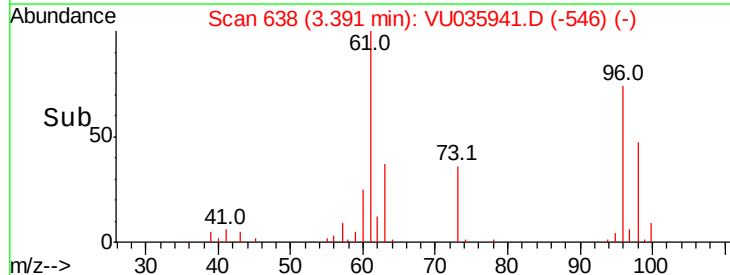
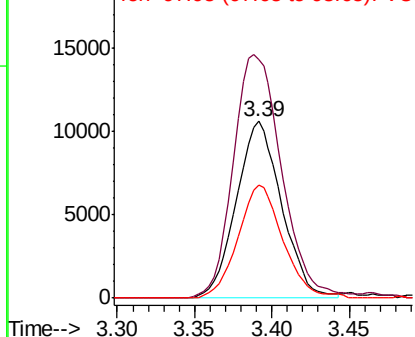


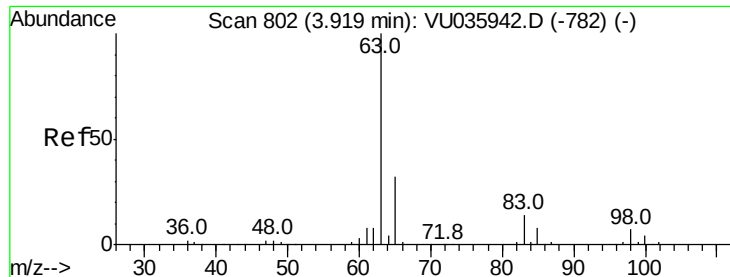
#18
trans-1,2-Dichloroethene
Concen: 0.788 ug/L
RT: 3.39 min Scan# 638
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

Tgt Ion: 96 Resp: 21590
Ion Ratio Lower Upper
96 100
61 135.4 101.2 187.8
98 64.2 45.0 83.6



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

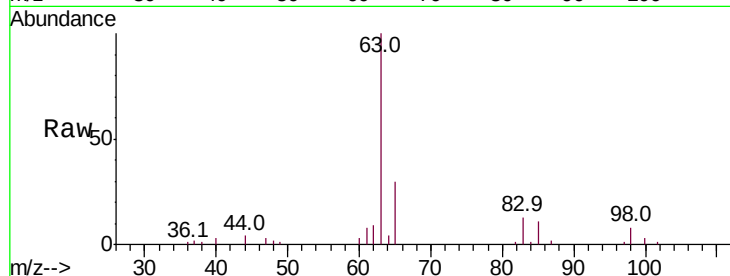




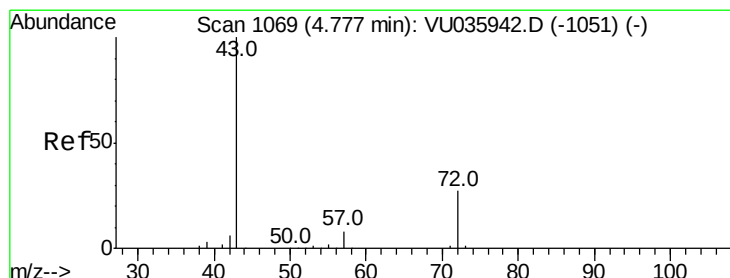
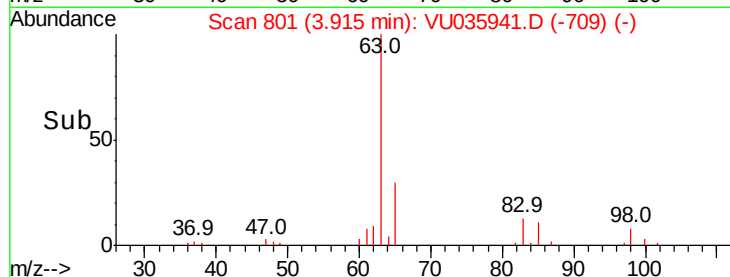
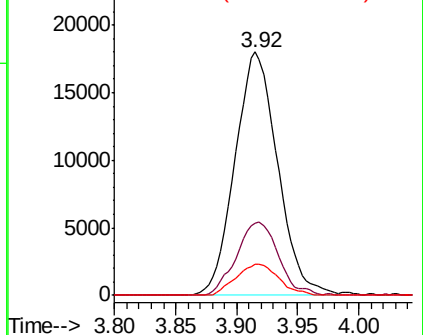
#19
 1,1-Dichloroethane
 Concen: 0.851 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: VU035941.D
 Acq: 03 Dec 2019 11:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

Tot Ion: 63 Resp: 43617
 Ion Ratio Lower Upper
 63 100
 65 29.7 22.4 41.6
 83 12.5 9.8 18.2

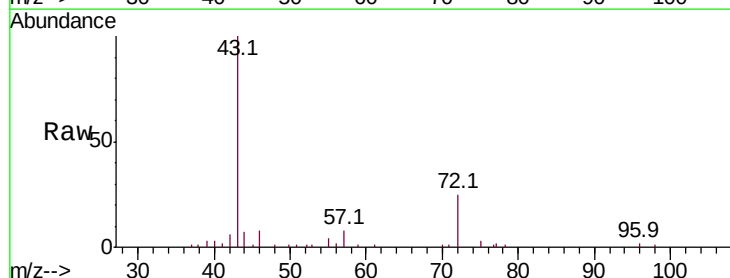


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

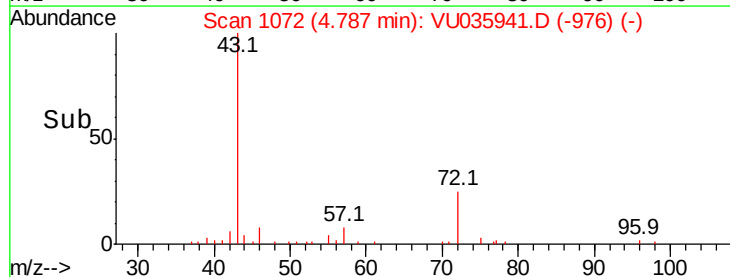
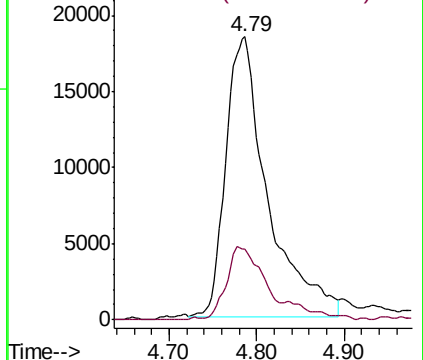


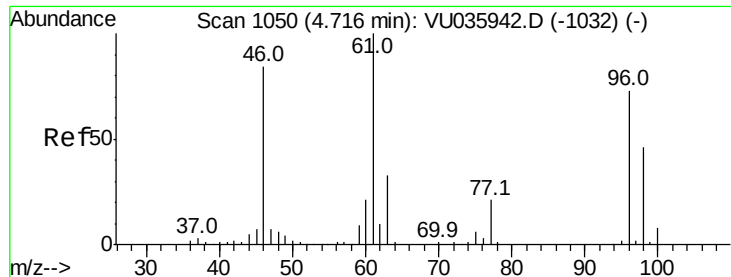
#21
 2-Butanone
 Concen: 8.184 ug/L
 RT: 4.79 min Scan# 1072
 Delta R.T. 0.01 min
 Lab File: VU035941.D
 Acq: 03 Dec 2019 11:19

Tgt Ion: 43 Resp: 61493
 Ion Ratio Lower Upper
 43 100
 72 21.2 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 0.749 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

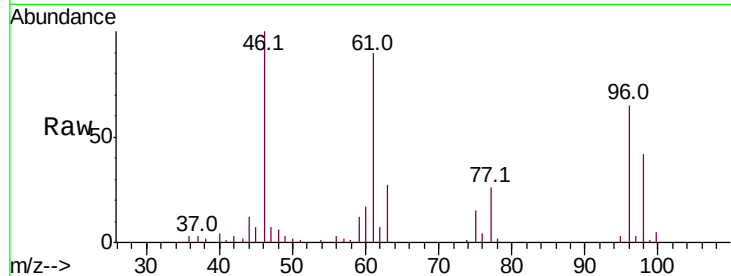
Tot Ion: 96 Resp: 22446

Ion Ratio Lower Upper

96 100

61 137.9 95.7 177.7

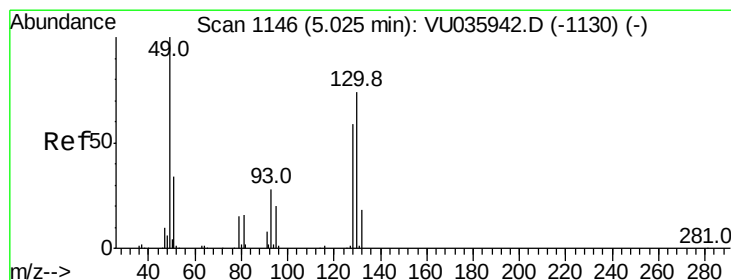
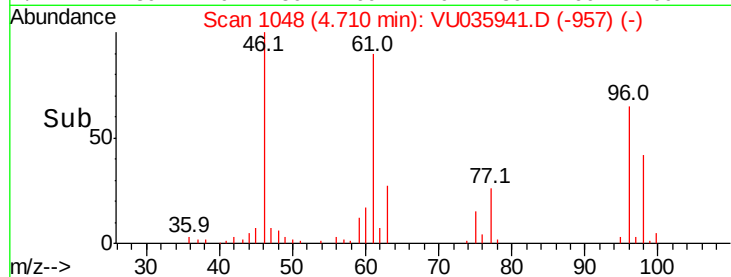
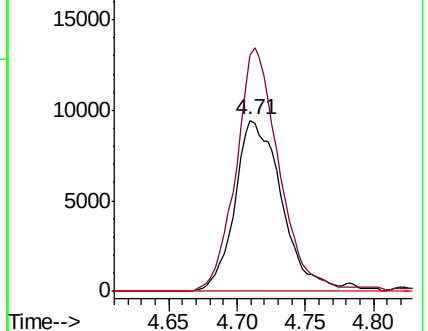
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035941.D (-1048) (-)

Ion 61.05 (60.75 to 61.75): VU035941.D (-1048) (-)

Ion 68.15 (67.85 to 68.85): VU035941.D (-1048) (-)



#23

Bromochloromethane

Concen: 0.738 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Tgt Ion: 128 Resp: 10499

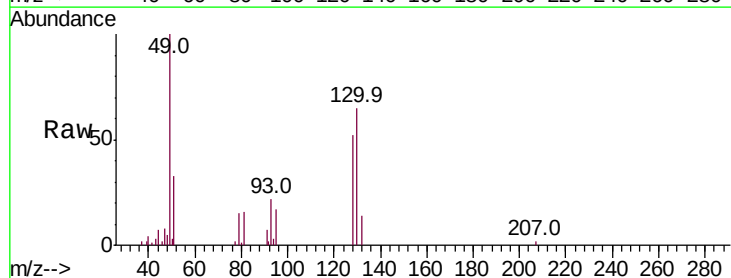
Ion Ratio Lower Upper

128 100

49 192.8 118.3 219.7

130 125.1 86.9 161.3

51 63.1 45.6 68.4

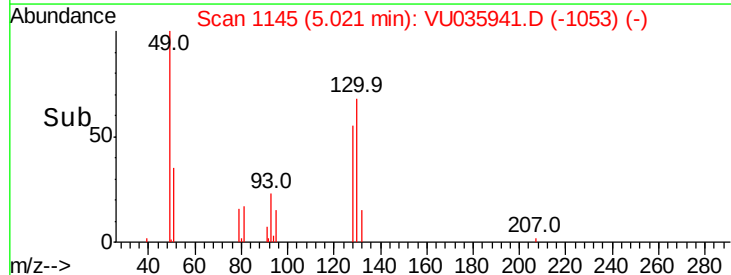
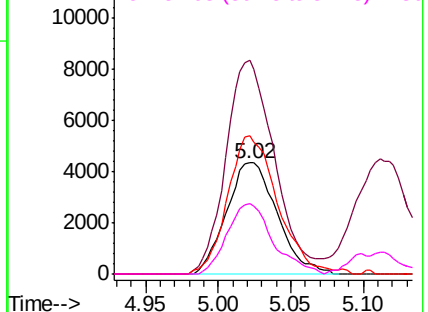


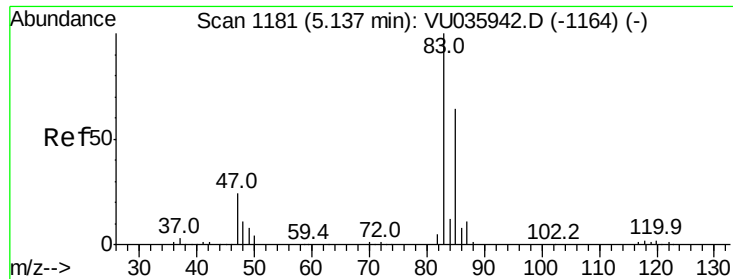
Abundance Ion 127.90 (127.60 to 128.60): VU035941.D (-1145) (-)

Ion 49.10 (48.80 to 49.80): VU035941.D (-1145) (-)

Ion 129.95 (129.65 to 130.65): VU035941.D (-1145) (-)

Ion 51.05 (50.75 to 51.75): VU035941.D (-1145) (-)

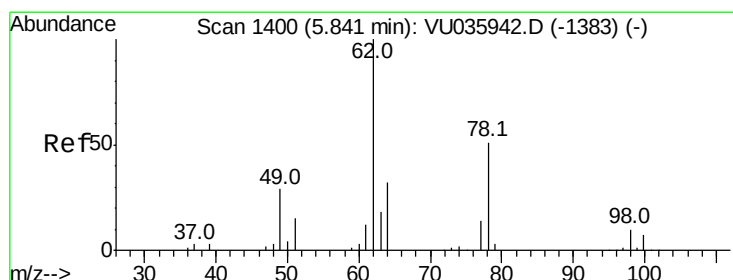
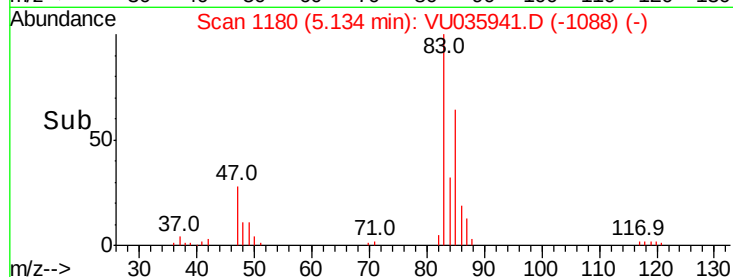
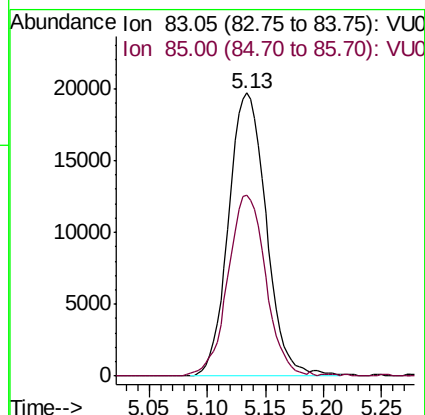
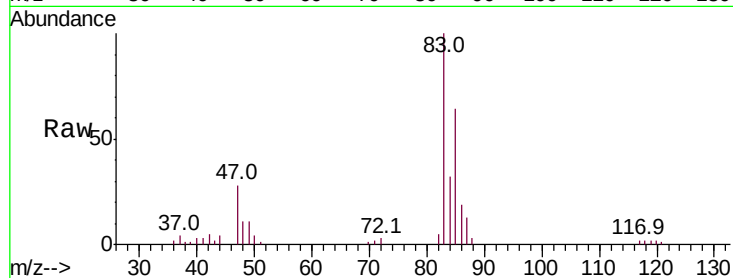




#25
Chloroform
Concen: 0.796 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

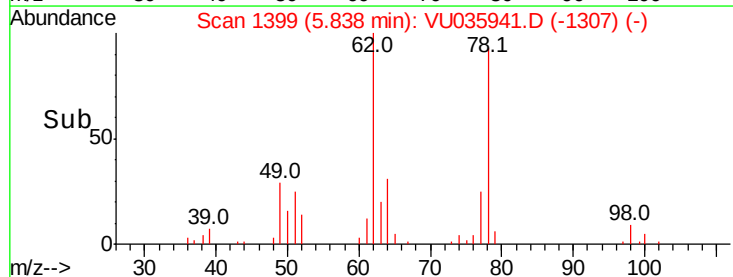
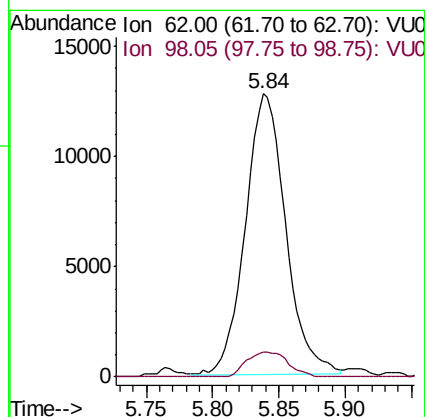
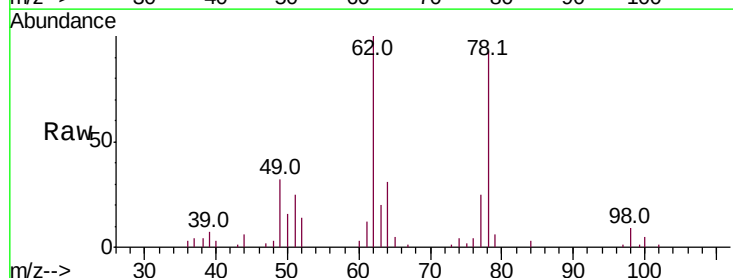
Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

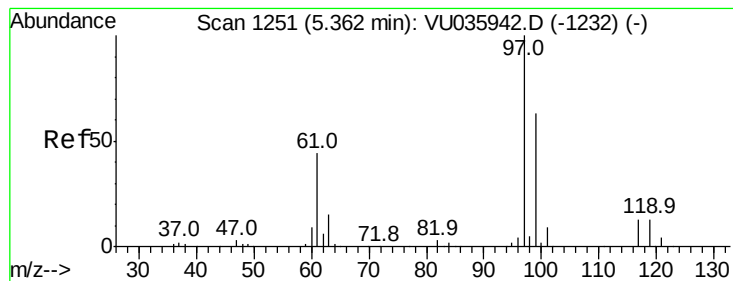
Tot Ion: 83 Resp: 44337
Ion Ratio Lower Upper
83 100
85 64.1 45.4 84.2



#27
1,2-Dichloroethane
Concen: 0.864 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

Tgt Ion: 62 Resp: 27110
Ion Ratio Lower Upper
62 100
98 8.9 7.6 11.4





#29

1,1,1-Trichloroethane

Concen: 0.887 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

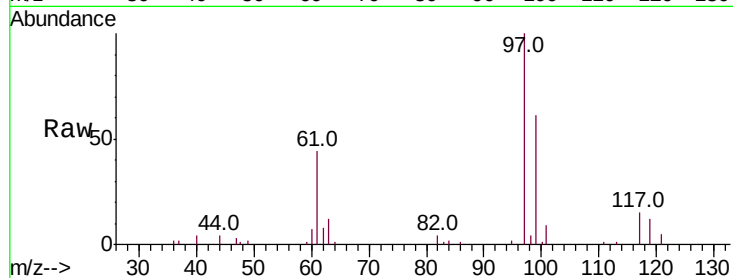
Tot Ion: 97 Resp: 37222

Ion Ratio Lower Upper

97 100

99 60.2 51.8 77.8

61 44.5 37.6 56.4

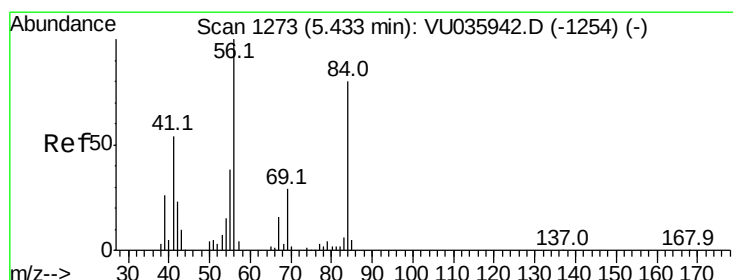
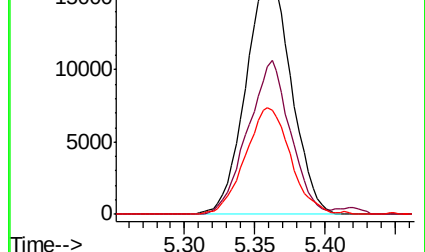
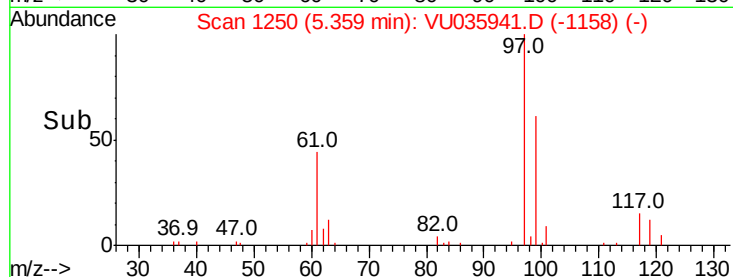


Abundance Ion 96.95 (96.65 to 97.65): VU035941.D (-1158) (-)

Ion 99.05 (98.75 to 99.75): VU035941.D (-1158) (-)

Ion 61.05 (60.75 to 61.75): VU035941.D (-1158) (-)

Time-->



#30

Cyclohexane

Concen: 0.705 ug/L

RT: 5.43 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

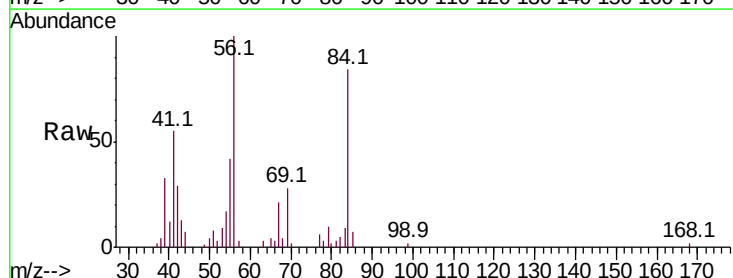
Tgt Ion: 56 Resp: 29601

Ion Ratio Lower Upper

56 100

69 29.8 24.0 36.0

84 87.4 66.9 100.3

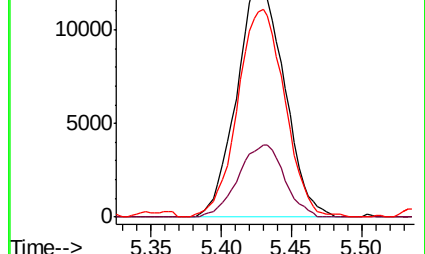
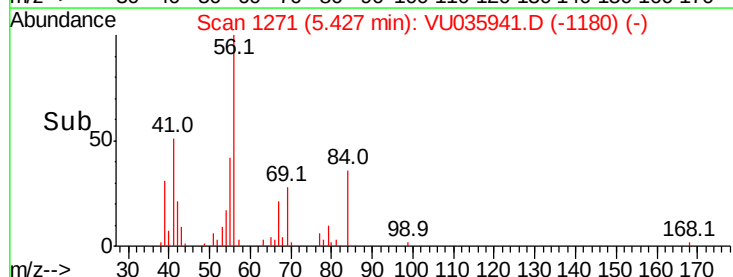


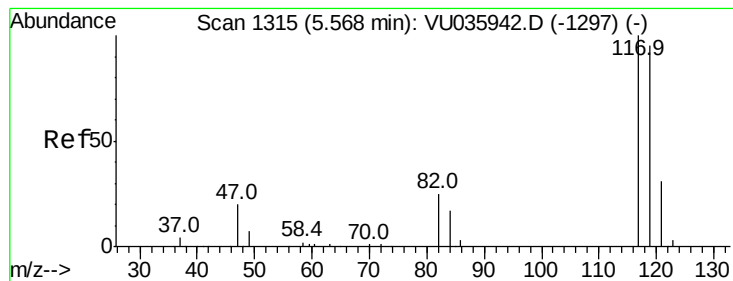
Abundance Ion 56.10 (55.80 to 56.80): VU035941.D (-1180) (-)

Ion 69.15 (68.85 to 69.85): VU035941.D (-1180) (-)

Ion 84.15 (83.85 to 84.85): VU035941.D (-1180) (-)

Time-->





#31

Carbon tetrachloride

Concen: 0.881 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

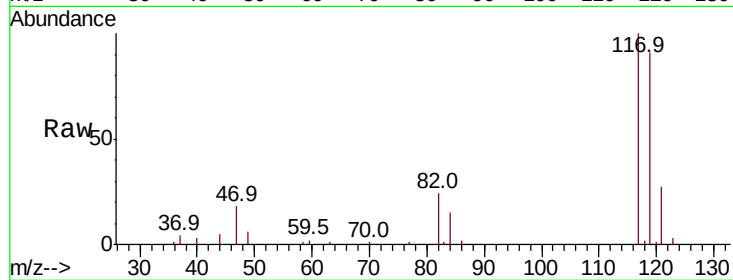
VSTD00105

Tot Ion:117 Resp: 33128

Ion Ratio Lower Upper

117 100

119 93.6 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

15000

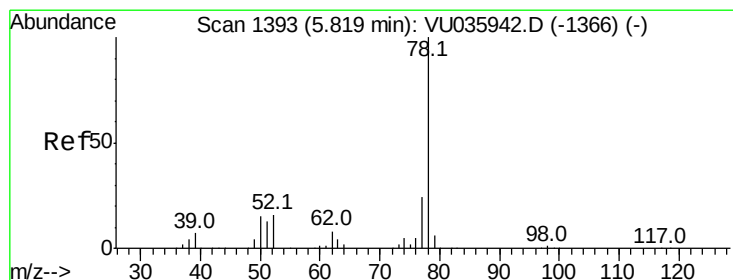
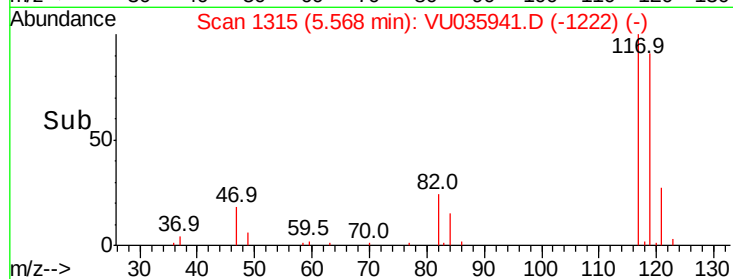
10000

5000

0

5.50 5.55 5.60 5.65

Time-->



#33

Benzene

Concen: 0.795 ug/L

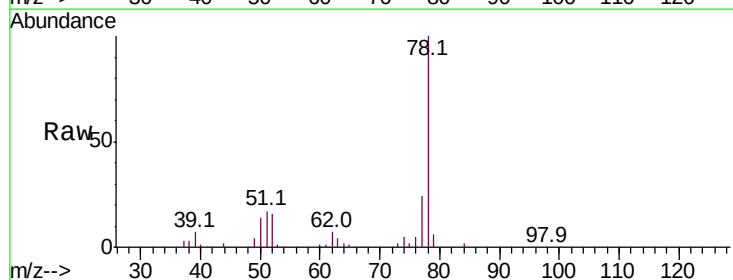
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Tgt Ion: 78 Resp: 89496



Abundance Ion 78.10 (77.80 to 78.80): VU0

50000

40000

30000

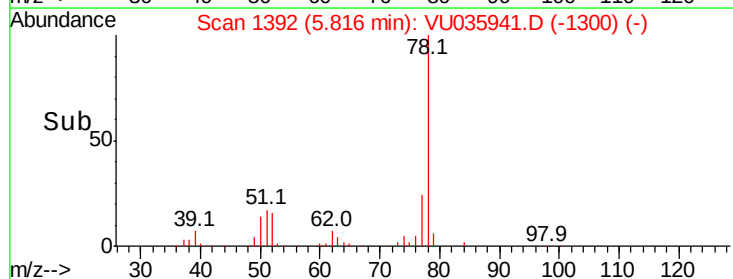
20000

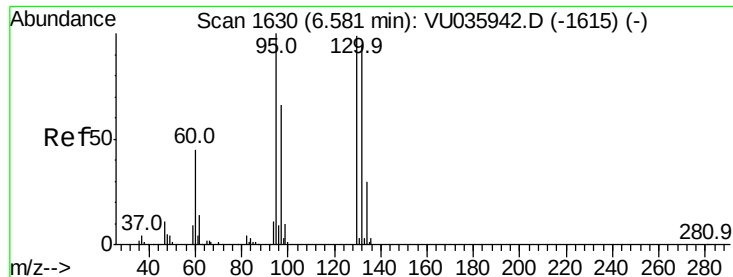
10000

0

5.70 5.75 5.80 5.85 5.90

Time-->





#34

Trichloroethene

Concen: 0.807 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

Tot Ion: 95 Resp: 23032

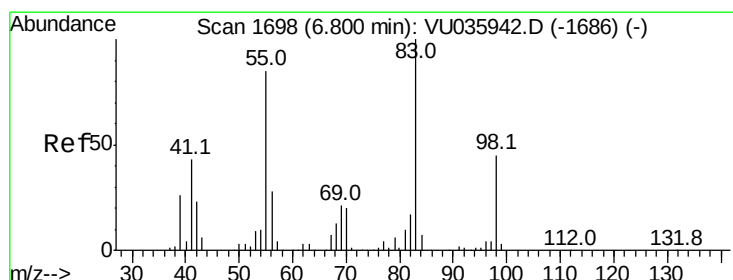
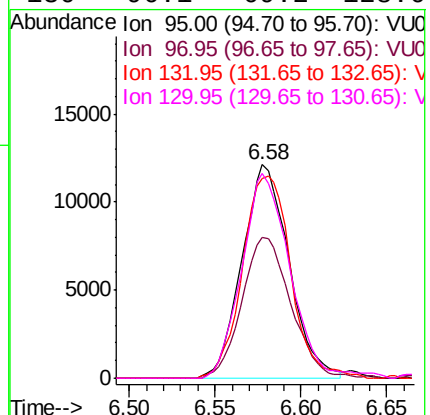
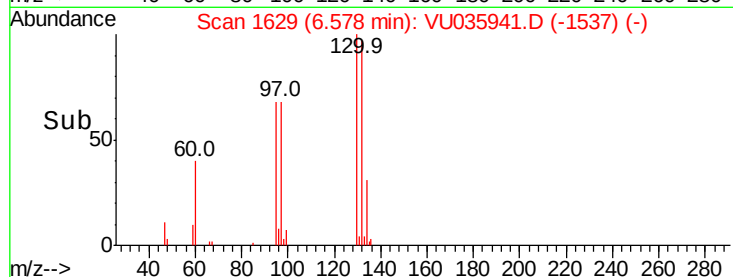
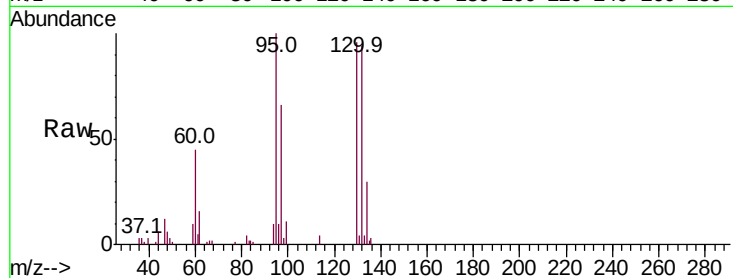
Ion Ratio Lower Upper

95 100

97 65.7 46.3 85.9

132 93.7 65.7 122.1

130 96.1 69.2 128.6



#35

Methylcyclohexane

Concen: 0.678 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

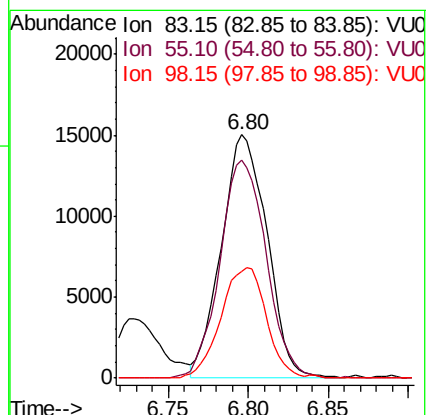
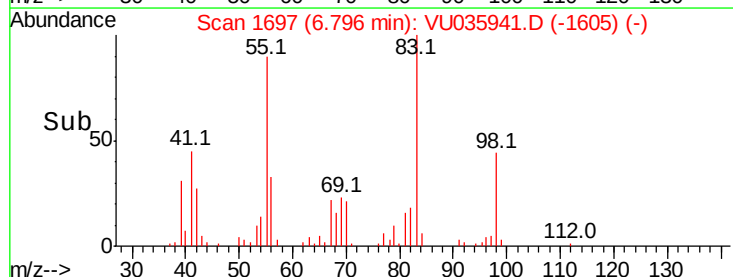
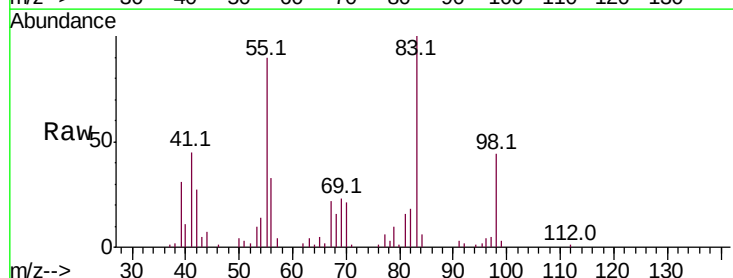
Tgt Ion: 83 Resp: 29493

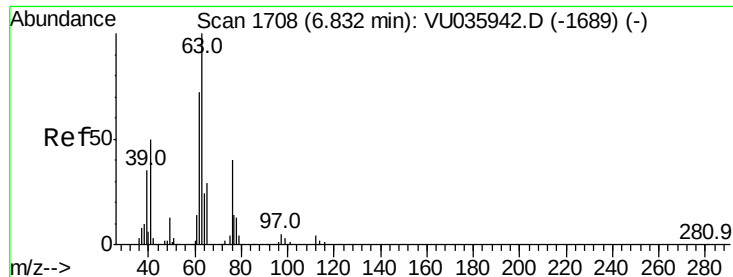
Ion Ratio Lower Upper

83 100

55 90.8 67.4 101.0

98 44.9 34.6 52.0





#37

1,2-Dichloropropane

Concen: 0.843 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

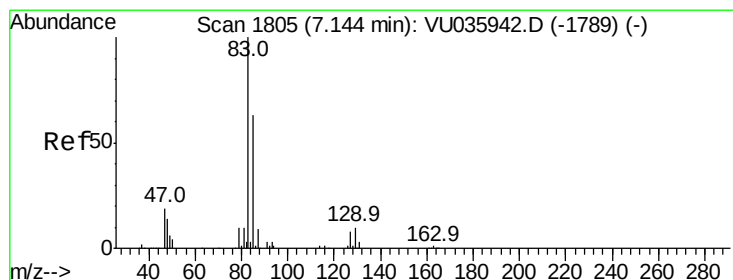
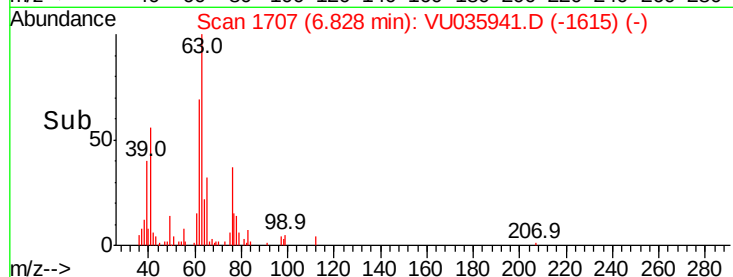
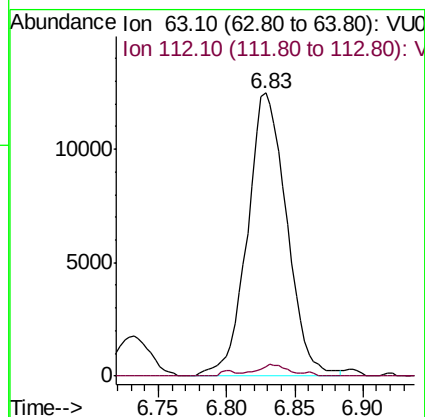
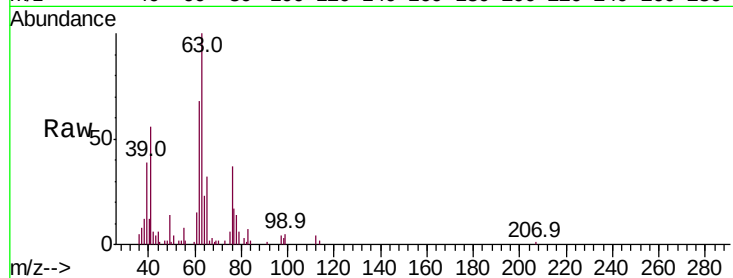
VSTD00105

Tot Ion: 63 Resp: 25016

Ion Ratio Lower Upper

63 100

112 3.2 3.3 4.9#



#38

Bromodichloromethane

Concen: 0.846 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

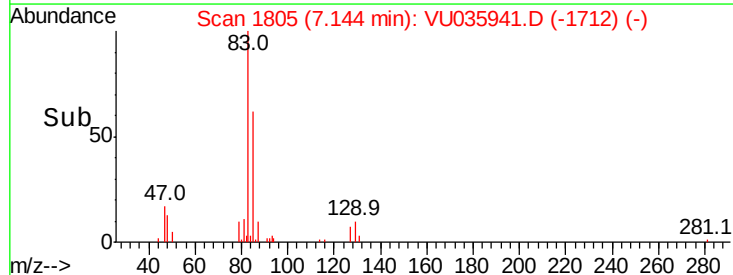
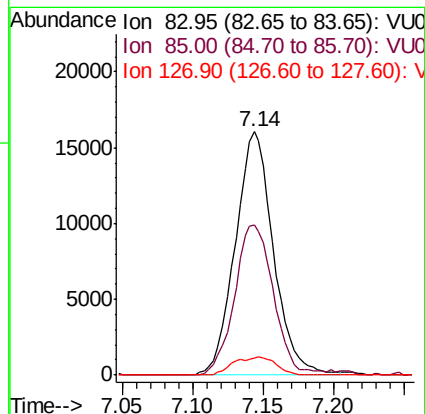
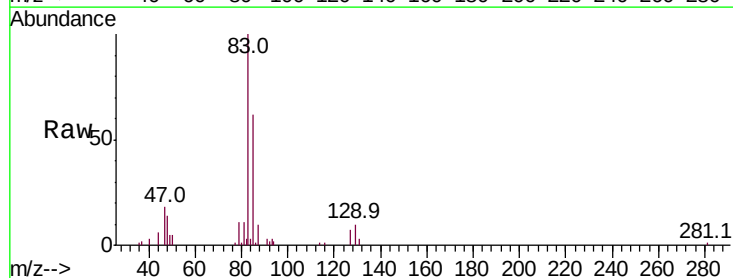
Tgt Ion: 83 Resp: 30418

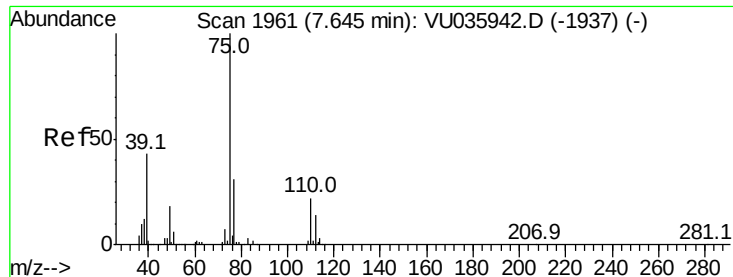
Ion Ratio Lower Upper

83 100

85 61.9 44.0 81.8

127 7.2 6.5 9.7





#39

cis-1,3-Dichloropropene

Concen: 0.657 ug/L

RT: 7.64 min Scan# 1960

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampled :

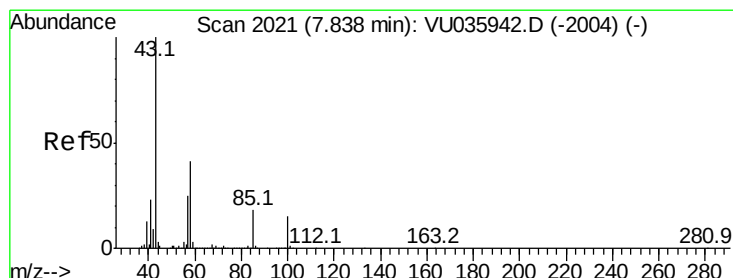
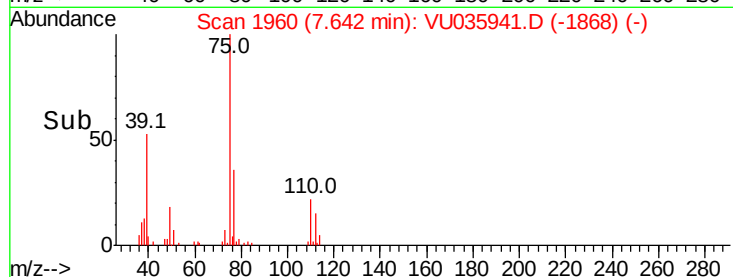
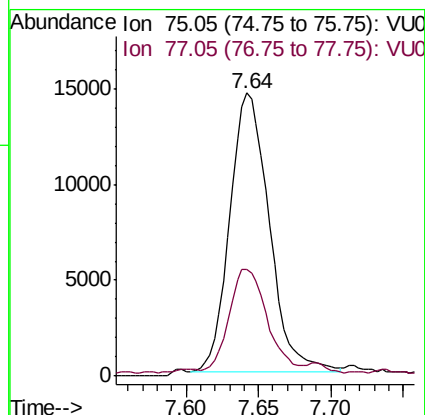
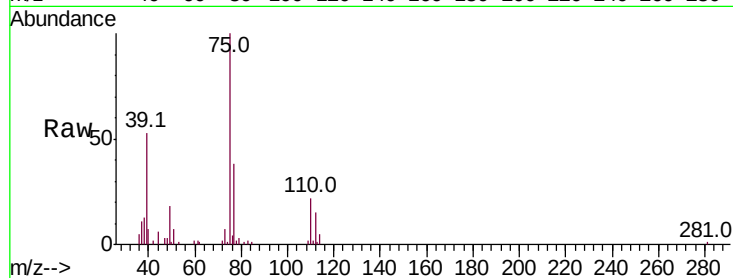
VSTD00105

Tot Ion: 75 Resp: 27599

Ion Ratio Lower Upper

75 100

77 37.7 21.9 40.7



#40

4-Methyl-2-pentanone

Concen: 7.357 ug/L

RT: 7.84 min Scan# 2022

Delta R.T. 0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

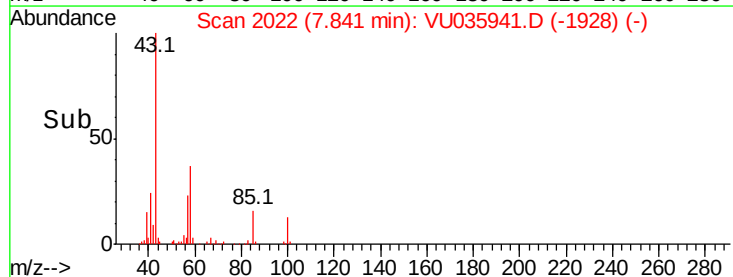
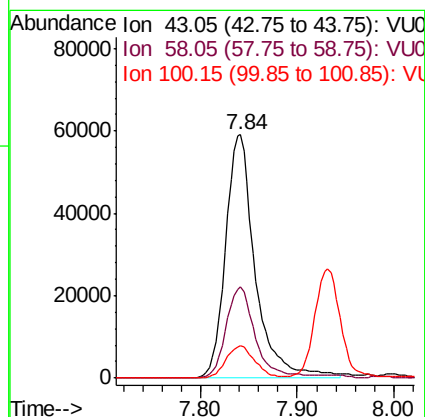
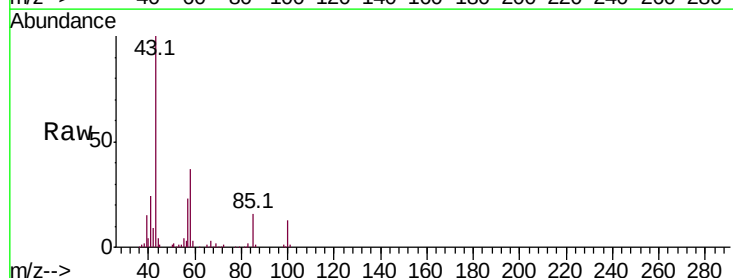
Tgt Ion: 43 Resp: 126117

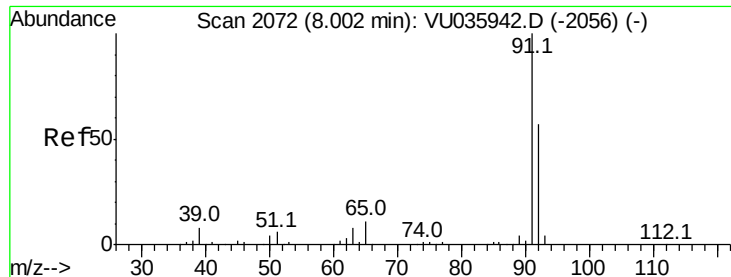
Ion Ratio Lower Upper

43 100

58 37.3 32.3 48.5

100 13.0 11.7 17.5





#42

Toluene

Concen: 0.733 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

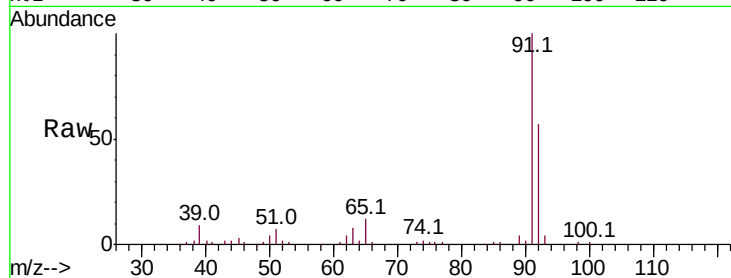
VSTD00105

Tot Ion: 91 Resp: 86407

Ion Ratio Lower Upper

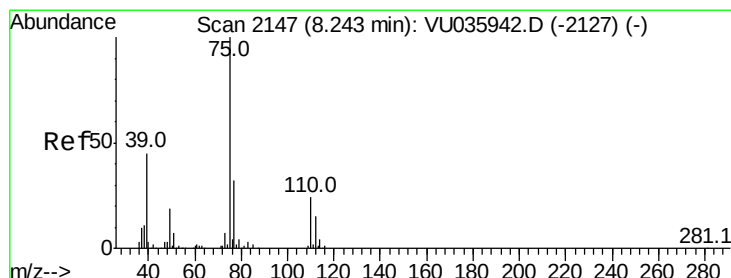
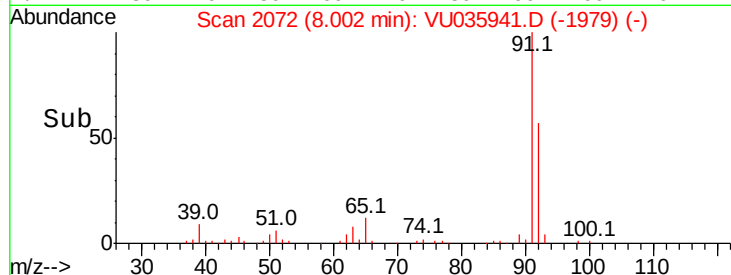
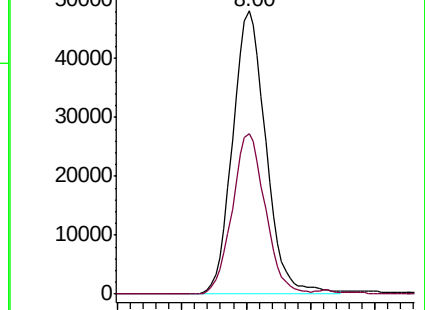
91 100

92 56.9 39.8 74.0



Abundance Ion 91.15 (90.85 to 91.85): VU035941.D (-1979) (-)

Ion 92.15 (91.85 to 92.85): VU035941.D (-1979) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.794 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035941.D

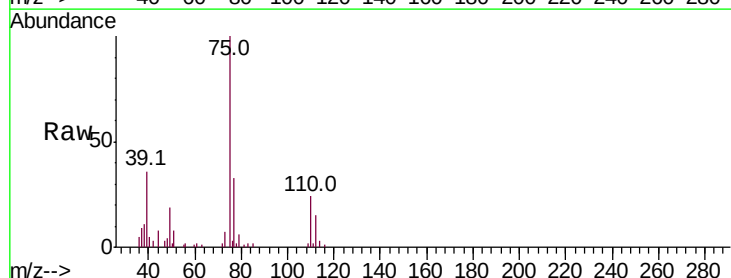
Acq: 03 Dec 2019 11:19

Tgt Ion: 75 Resp: 26759

Ion Ratio Lower Upper

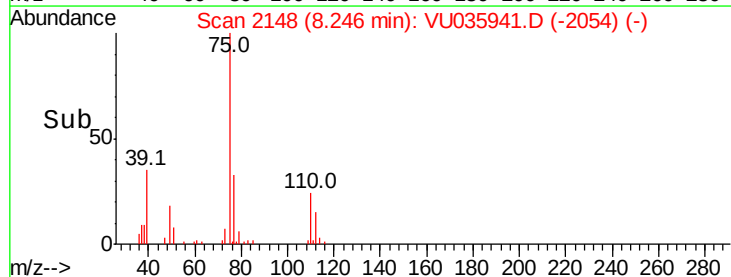
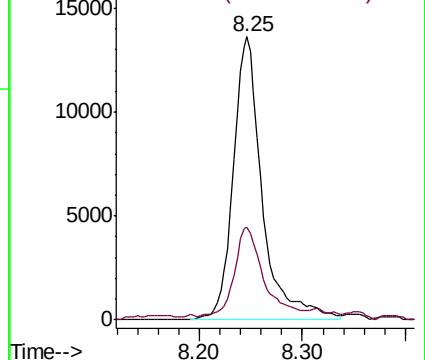
75 100

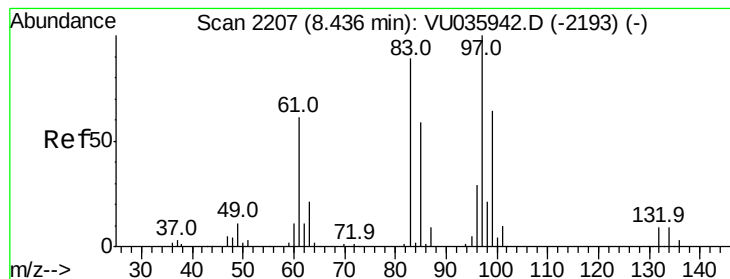
77 32.6 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU035941.D (-2054) (-)

Ion 77.05 (76.75 to 77.75): VU035941.D (-2054) (-)





#45

1,1,2-Trichloroethane

Concen: 0.793 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

Tot Ion: 97 Resp: 16753

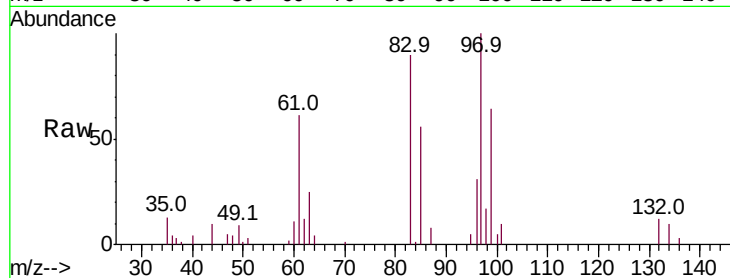
Ion Ratio Lower Upper

97 100

99 64.0 45.0 83.6

83 89.6 62.1 115.3

85 55.8 41.4 77.0

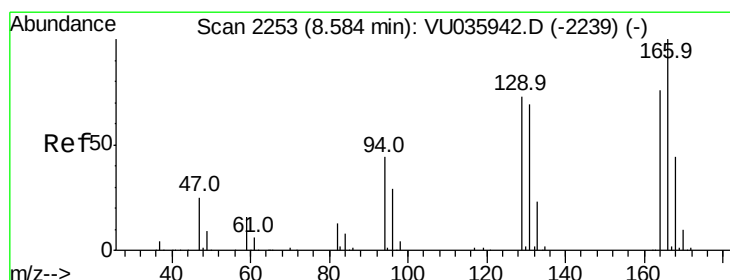
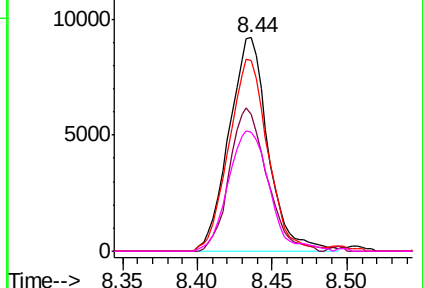
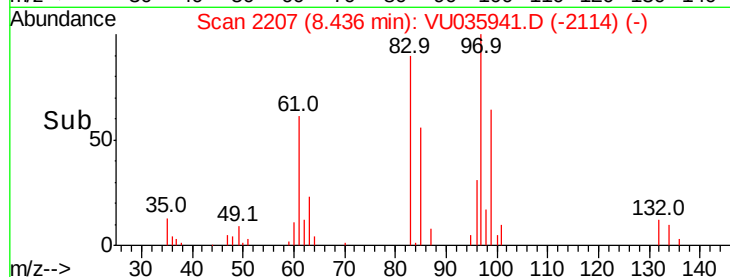


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.775 ug/L

RT: 8.58 min Scan# 2252

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Tgt Ion:164 Resp: 19046

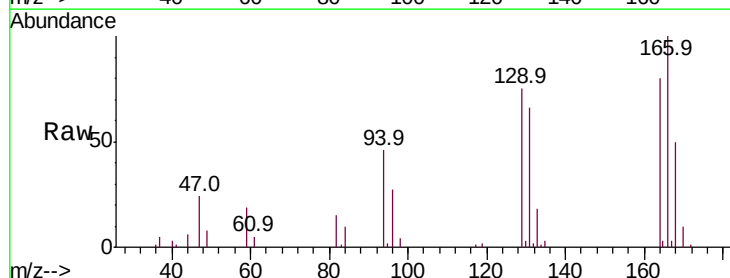
Ion Ratio Lower Upper

164 100

129 94.1 67.9 126.1

131 83.1 64.1 119.1

166 125.6 92.6 172.0

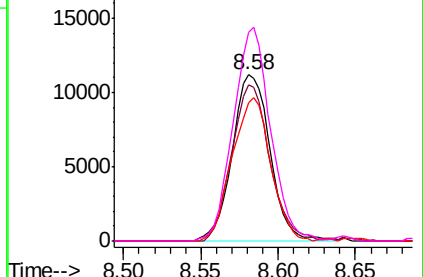
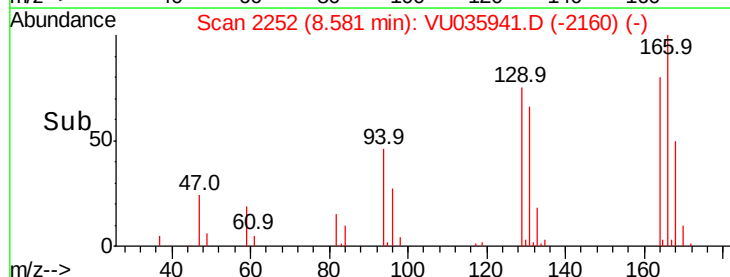


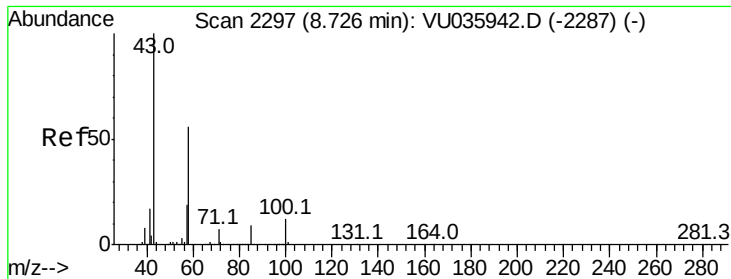
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

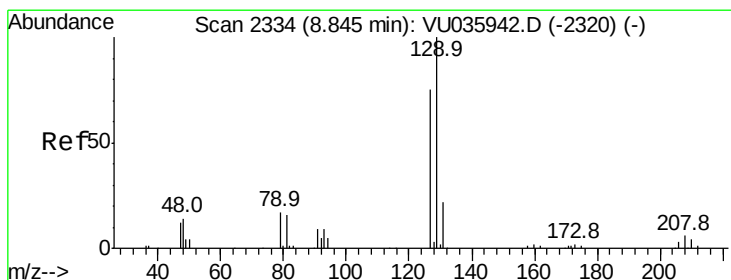
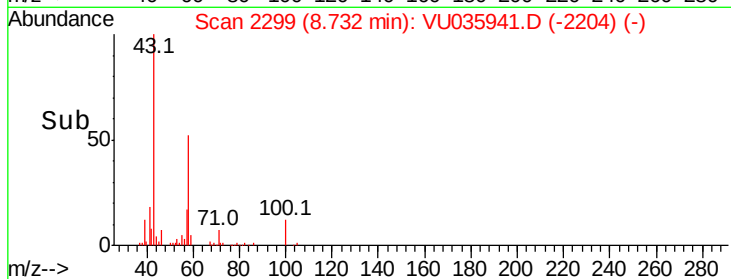
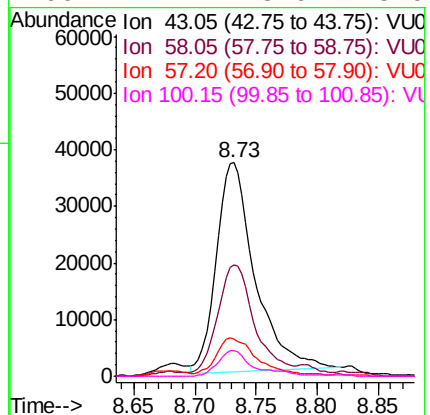
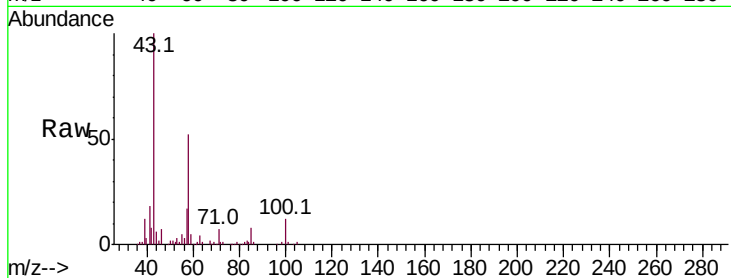




#48
2-Hexanone
Concen: 6.649 ug/L
RT: 8.73 min Scan# 2299
Delta R.T. 0.01 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

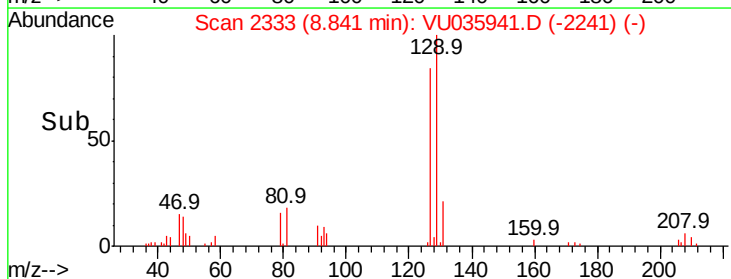
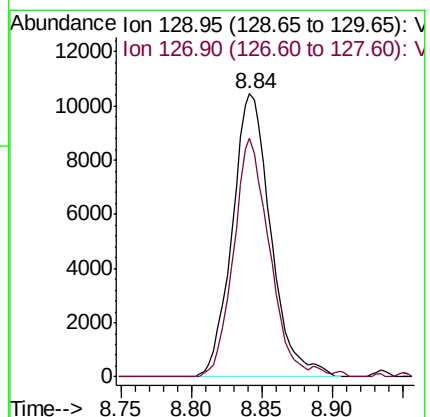
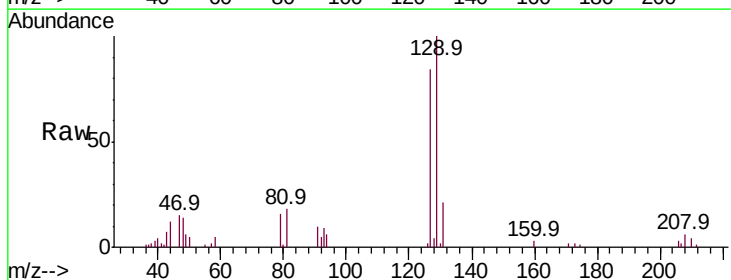
Instrument :
MSVOA_U
ClientSampleID :
VSTD00105

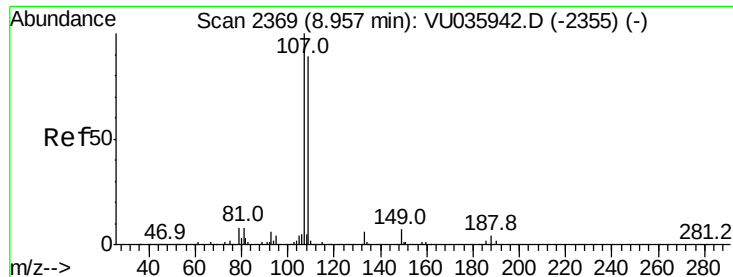
Tot Ion:	43	Resp:	81830
Ion	Ratio	Lower	Upper
43	100		
58	48.7	45.4	68.2
57	17.6	14.9	22.3
100	11.2	8.6	13.0



#49
Dibromochloromethane
Concen: 0.773 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

Tgt Ion:	129	Resp:	19944
Ion	Ratio	Lower	Upper
129	100		
127	84.1	52.8	98.0

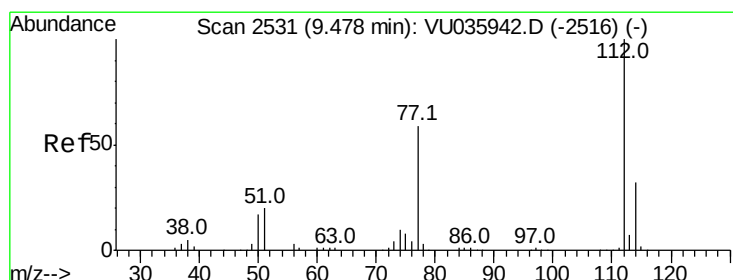
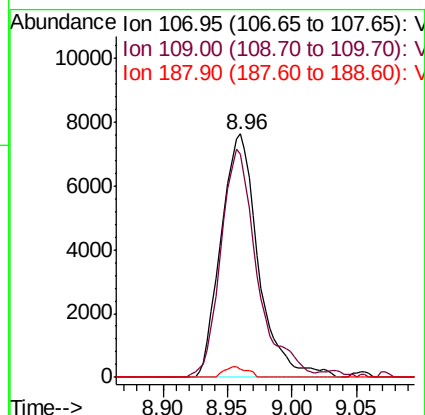
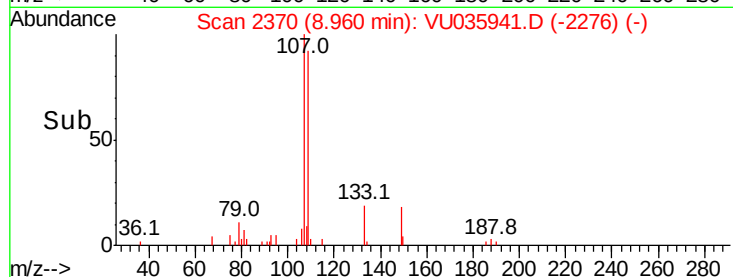
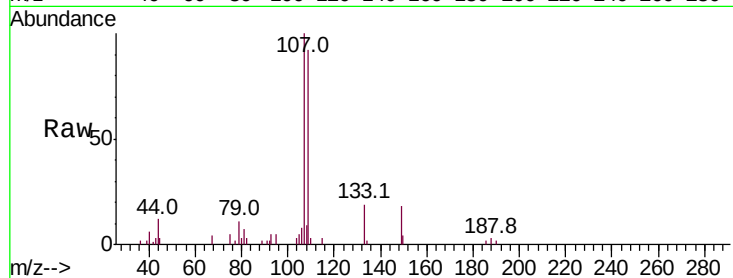




#50
1,2-Dibromoethane
Concen: 0.766 ug/L
RT: 8.96 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

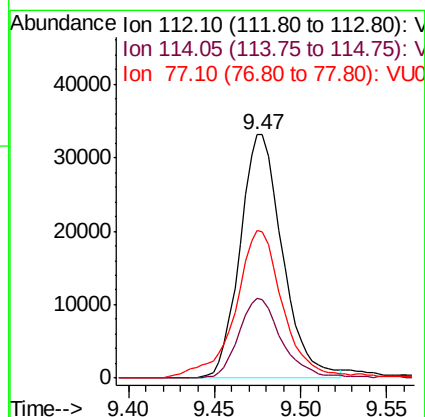
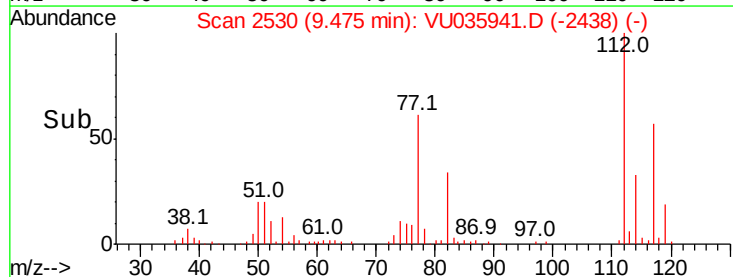
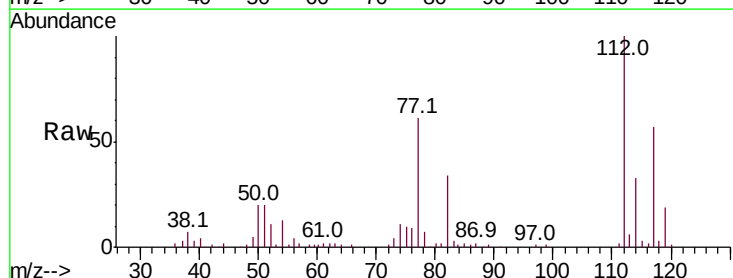
Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

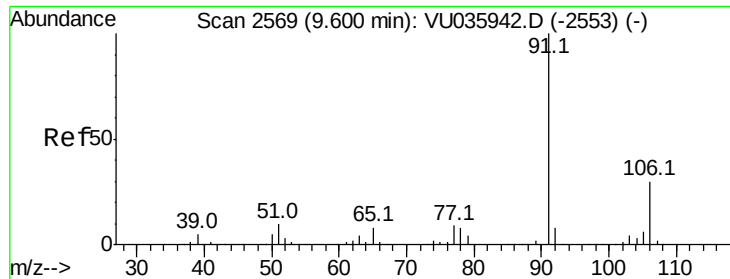
Tot Ion	Ratio	Lower	Upper
107	100		
109	91.5	62.5	116.1
188	3.4	3.0	4.6



#51
Chlorobenzene
Concen: 0.743 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	22.5	41.7
77	60.8	47.7	71.5





#52

Ethylbenzene

Concen: 0.682 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampled :

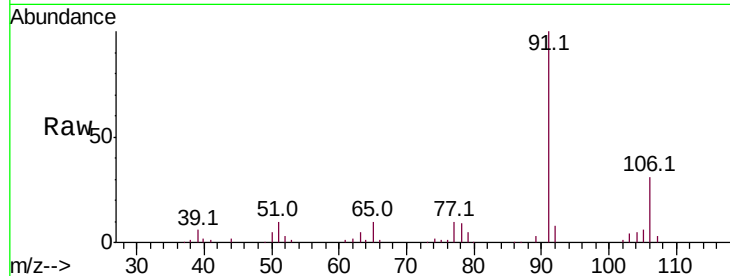
VSTD00105

Tot Ion: 91 Resp: 83781

Ion Ratio Lower Upper

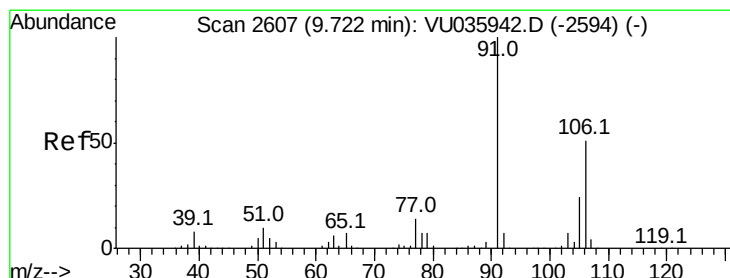
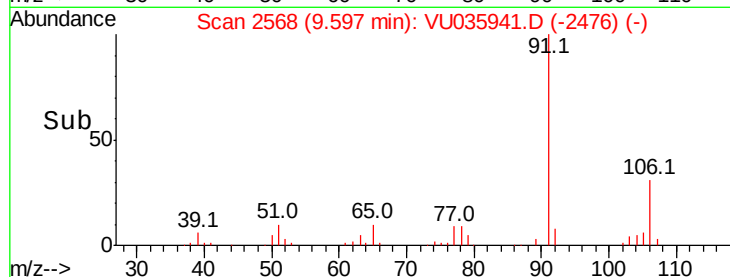
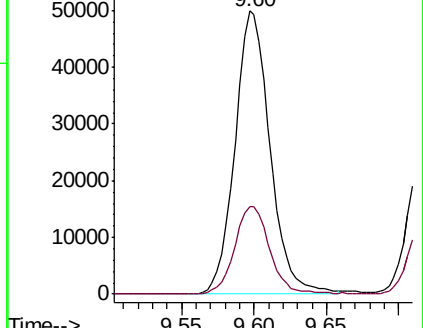
91 100

106 30.7 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU035941.D (-2553) (-)

Ion 106.15 (105.85 to 106.85): VU035941.D (-2553) (-)



#53

m,p-Xylene

Concen: 0.650 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035941.D

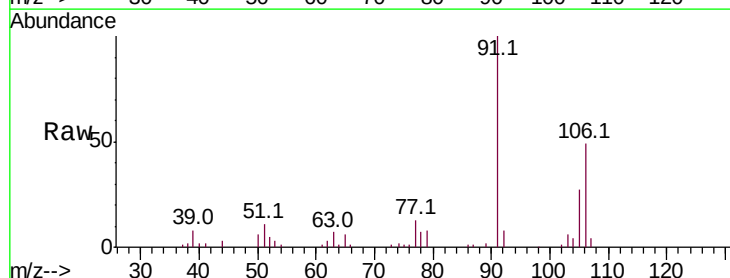
Acq: 03 Dec 2019 11:19

Tgt Ion: 106 Resp: 30303

Ion Ratio Lower Upper

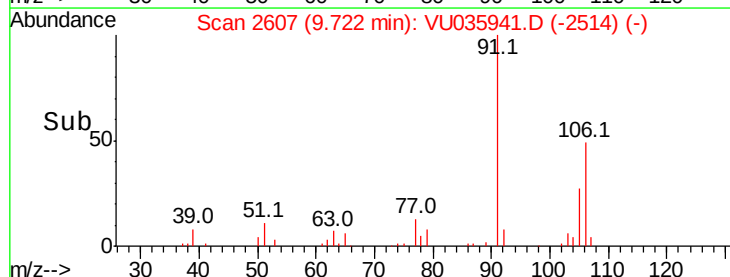
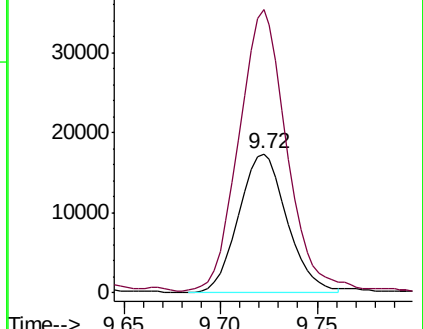
106 100

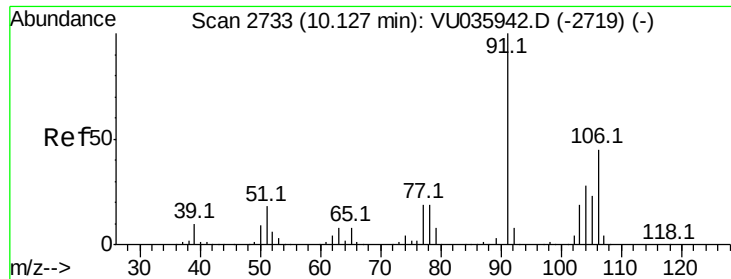
91 203.3 138.9 257.9



Abundance Ion 106.15 (105.85 to 106.85): VU035941.D (-2594) (-)

Ion 91.15 (90.85 to 91.85): VU035941.D (-2594) (-)

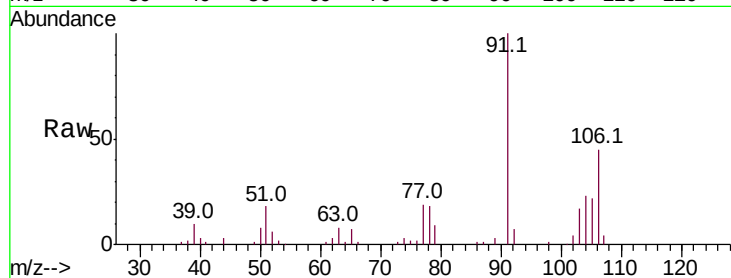




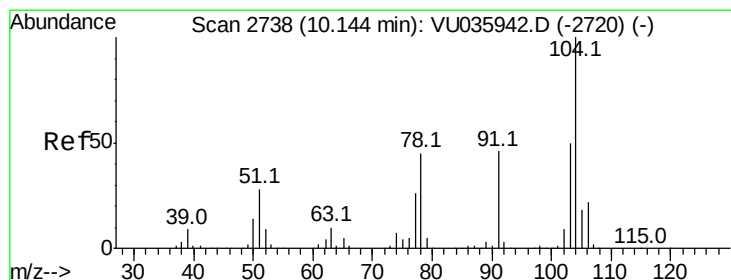
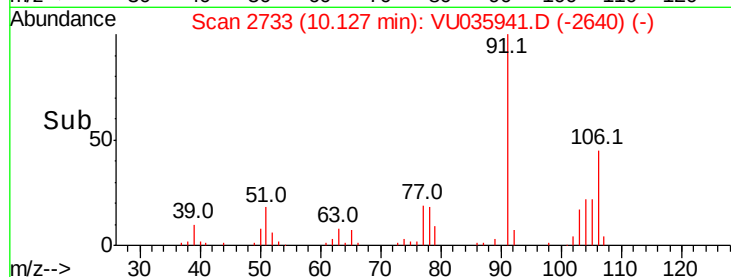
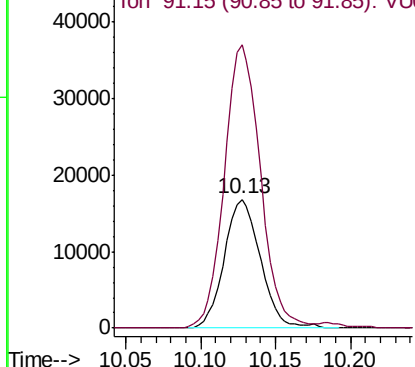
#54
o-Xylene
Concen: 0.635 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

Tot Ion:106 Resp: 28335
Ion Ratio Lower Upper
106 100
91 219.9 155.3 288.3

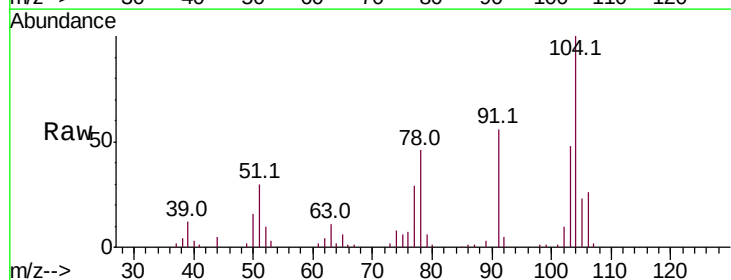


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

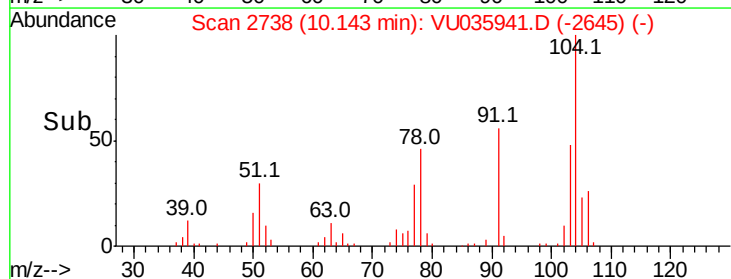
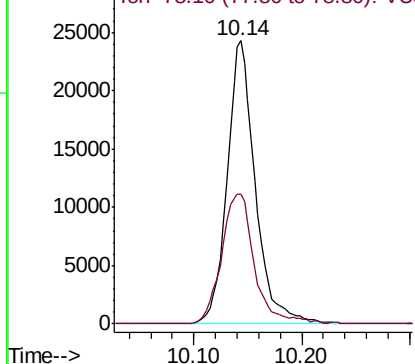


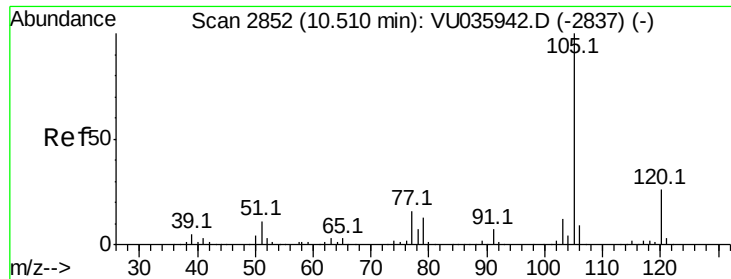
#55
Styrene
Concen: 0.594 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. -0.00 min
Lab File: VU035941.D
Acq: 03 Dec 2019 11:19

Tgt Ion:104 Resp: 44058
Ion Ratio Lower Upper
104 100
78 46.1 31.2 58.0



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.624 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

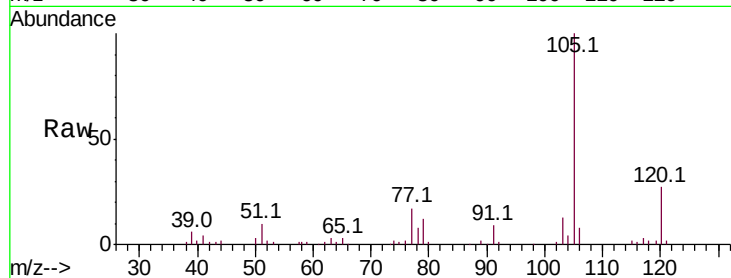
Tot Ion:105 Resp: 73355

Ion Ratio Lower Upper

105 100

120 26.9 21.3 31.9

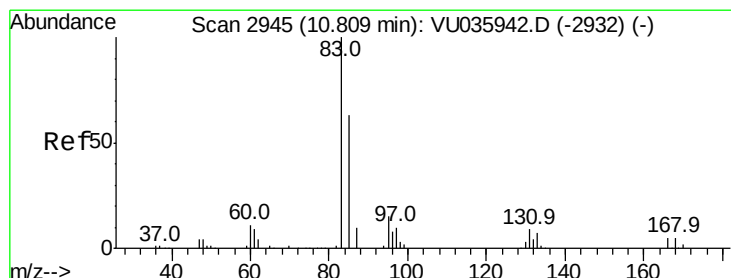
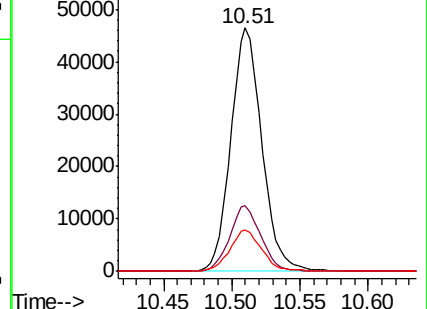
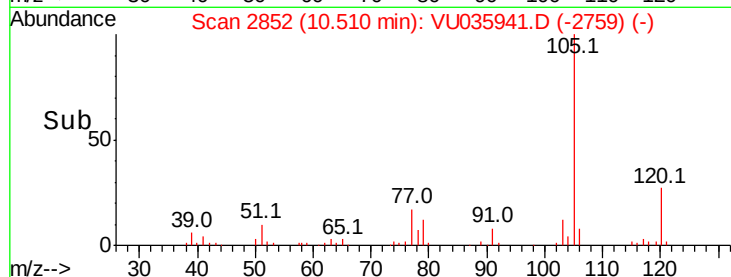
77 17.5 13.1 19.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.810 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

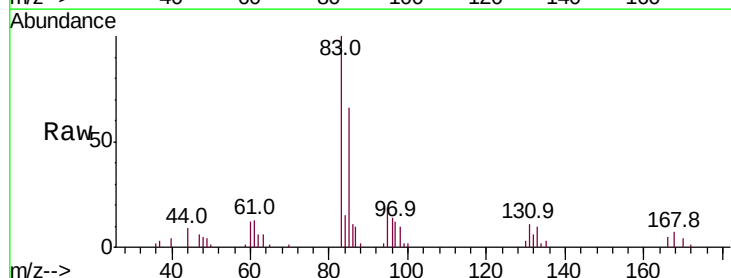
Tgt Ion: 83 Resp: 22457

Ion Ratio Lower Upper

83 100

85 66.4 44.3 82.3

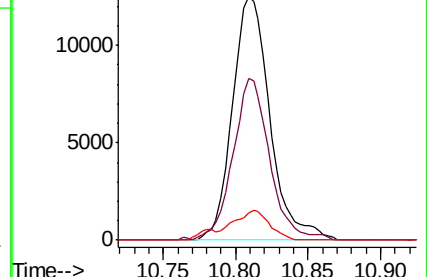
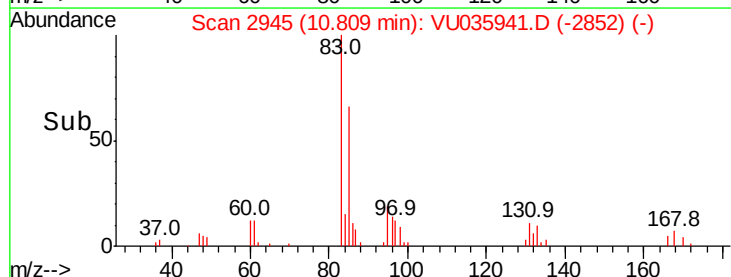
131 11.0 7.2 10.8#

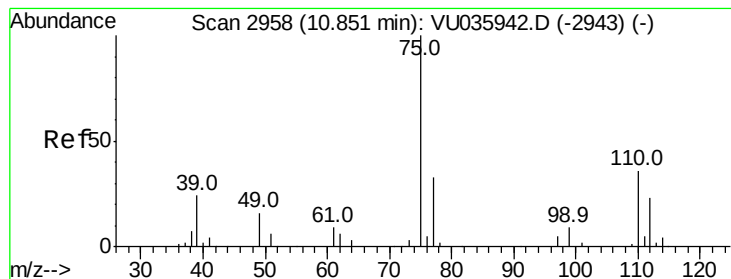


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.803 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

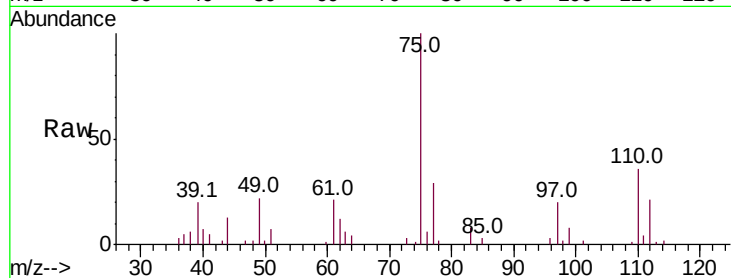
VSTD00105

Tot Ion: 75 Resp: 15680

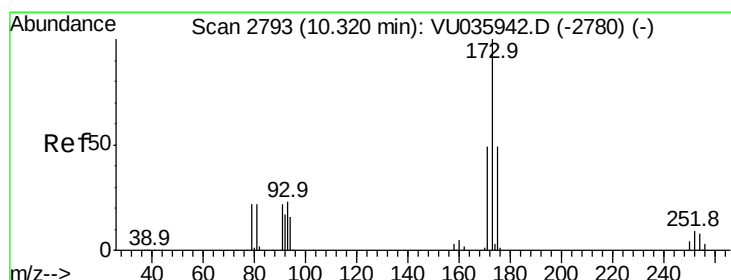
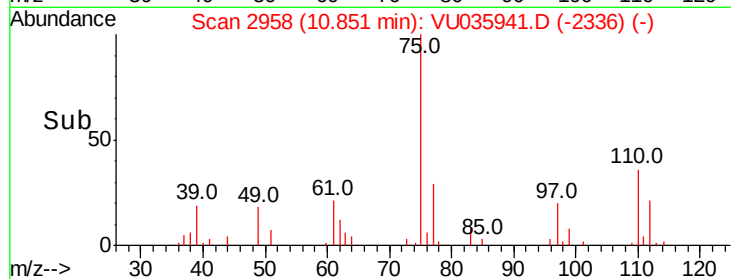
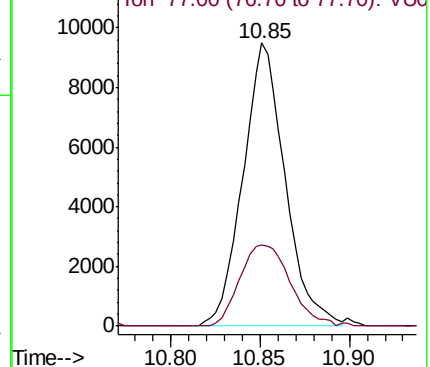
Ion Ratio Lower Upper

75 100

77 34.2 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU035941.D (-2943) (-)



#61

Bromoform

Concen: 1.054 ug/L

RT: 10.32 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

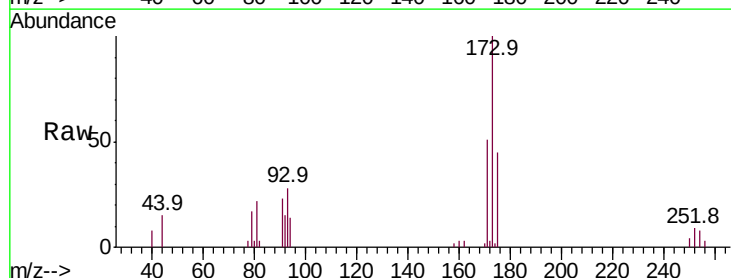
Tgt Ion: 173 Resp: 11976

Ion Ratio Lower Upper

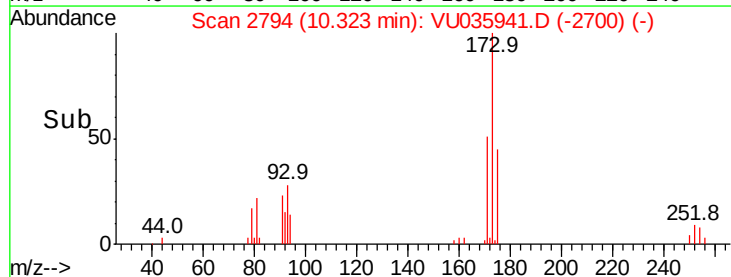
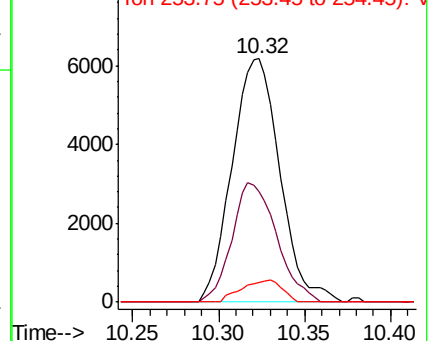
173 100

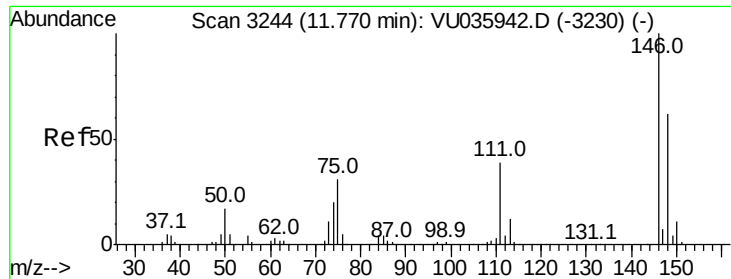
175 45.9 39.3 58.9

254 7.5 7.3 10.9



Abundance Ion 172.90 (172.60 to 173.60): VU035941.D (-2780) (-)

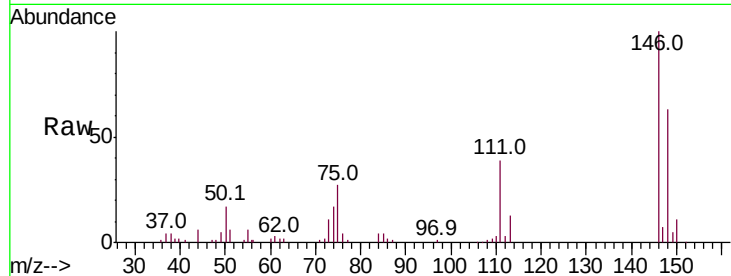




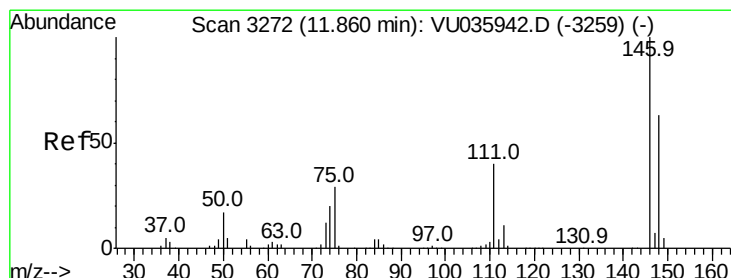
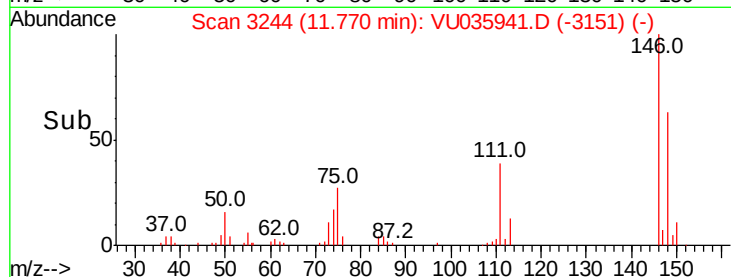
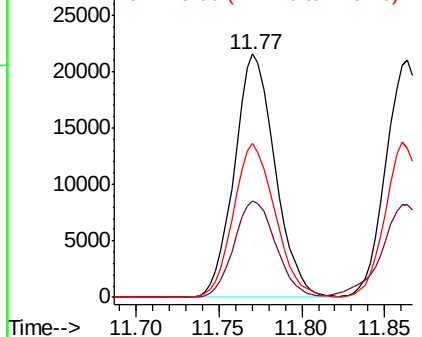
#62
 1,3-Dichlorobenzene
 Concen: 0.871 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. -0.00 min
 Lab File: VU035941.D
 Acq: 03 Dec 2019 11:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

Tot Ion:146 Resp: 36781
 Ion Ratio Lower Upper
 146 100
 111 39.4 27.6 51.4
 148 63.0 43.4 80.6

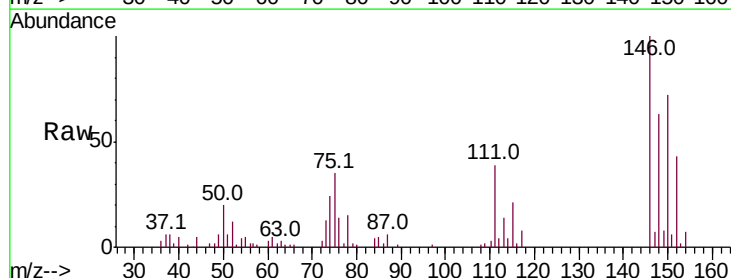


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

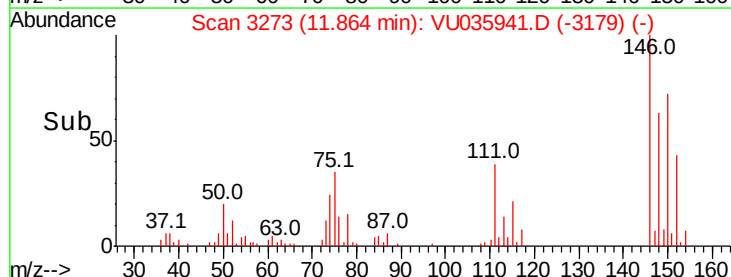
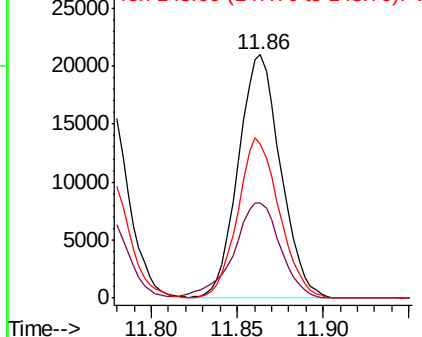


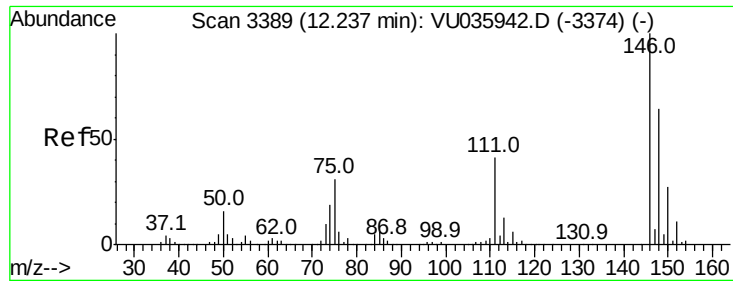
#63
 1,4-Dichlorobenzene
 Concen: 0.881 ug/L
 RT: 11.86 min Scan# 3273
 Delta R.T. 0.00 min
 Lab File: VU035941.D
 Acq: 03 Dec 2019 11:19

Tgt Ion:146 Resp: 35854
 Ion Ratio Lower Upper
 146 100
 111 39.0 28.5 52.9
 148 63.0 44.4 82.5



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

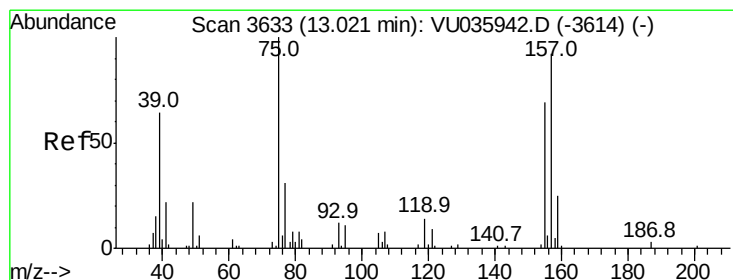
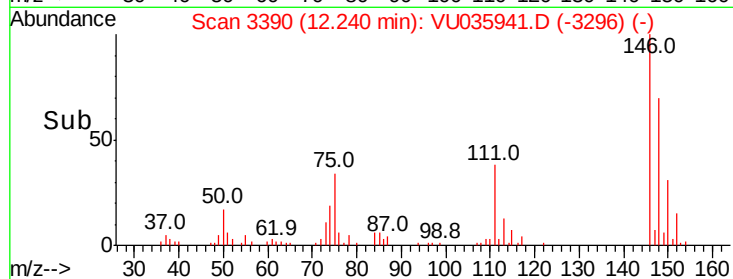
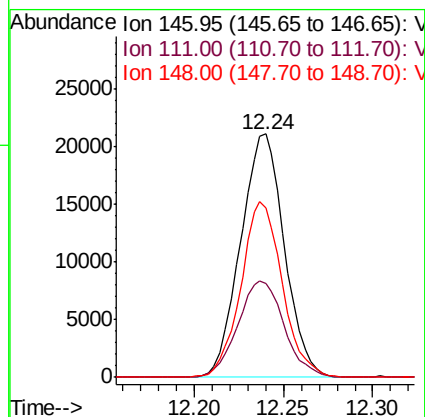
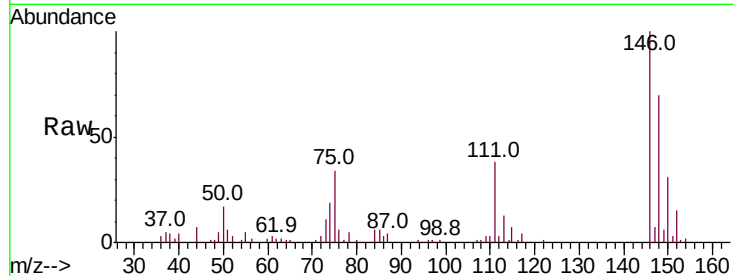




#65
 1,2-Dichlorobenzene
 Concen: 0.908 ug/L
 RT: 12.24 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VU035941.D
 Acq: 03 Dec 2019 11:19

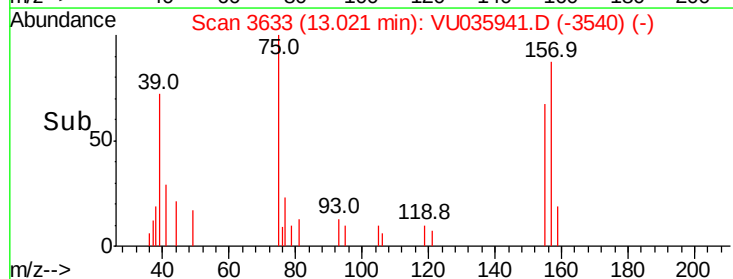
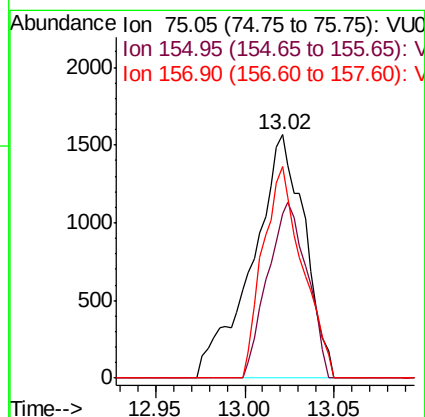
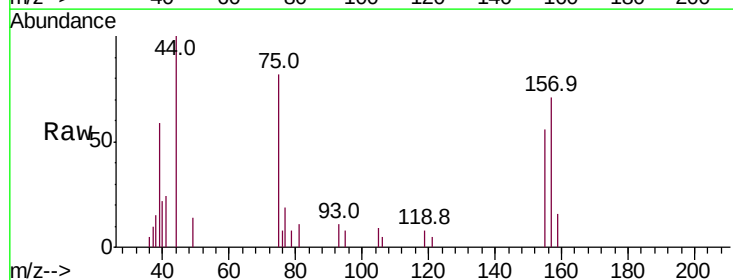
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

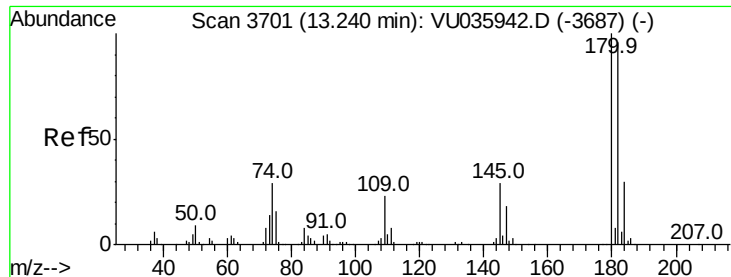
Tot Ion:146 Resp: 36020
 Ion Ratio Lower Upper
 146 100
 111 38.4 32.6 48.8
 148 69.8 50.9 76.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.230 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU035941.D
 Acq: 03 Dec 2019 11:19

Tgt Ion: 75 Resp: 3200
 Ion Ratio Lower Upper
 75 100
 155 67.5 55.1 82.7
 157 86.7 74.0 111.0

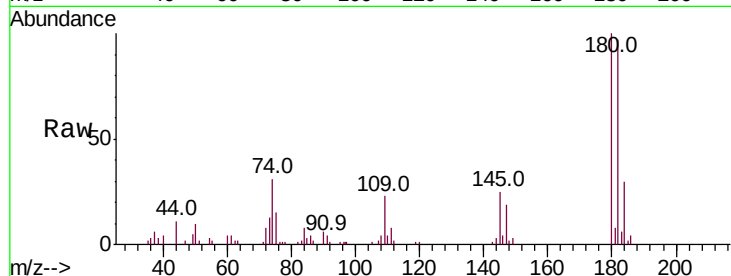




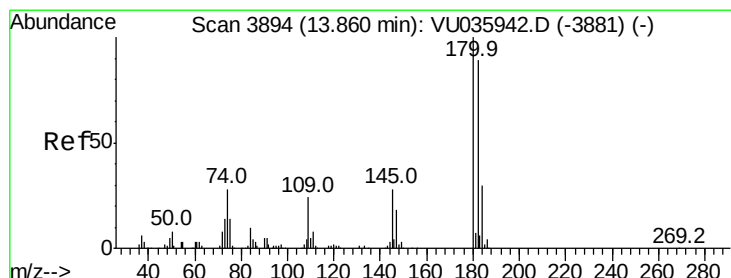
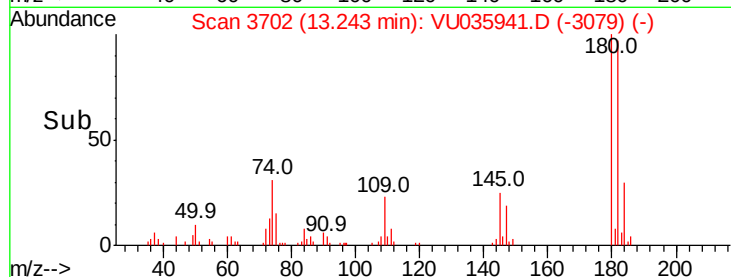
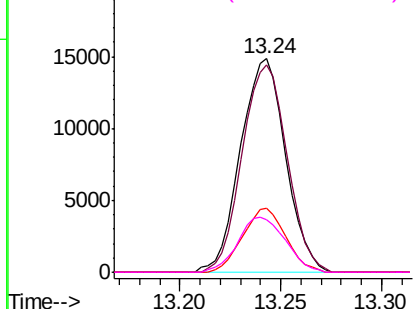
#67
 1,3,5-Trichlorobenzene
 Concen: 0.857 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU035941.D
 Acq: 03 Dec 2019 11:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

Tot Ion:180 Resp: 23295
 Ion Ratio Lower Upper
 180 100
 182 96.8 77.2 115.8
 184 28.6 24.5 36.7
 145 27.1 23.0 34.6

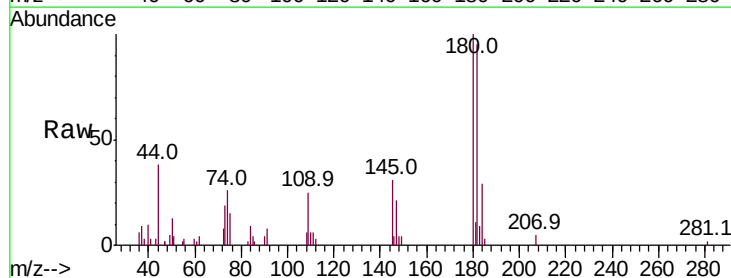


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

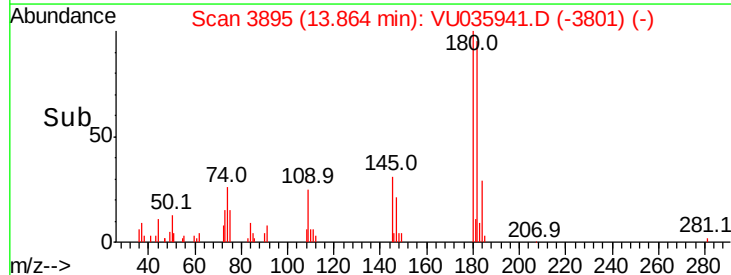
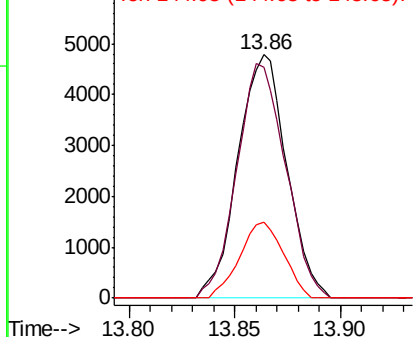


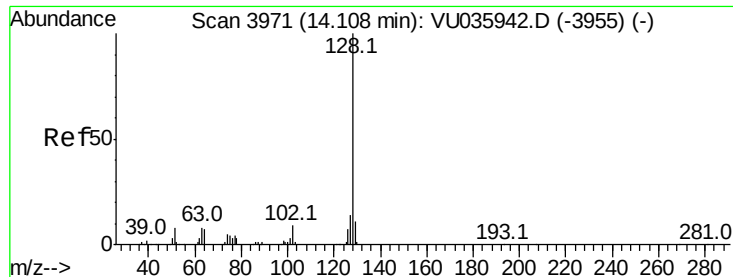
#68
 1,2,4-trichlorobenzene
 Concen: 0.471 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU035941.D
 Acq: 03 Dec 2019 11:19

Tgt Ion:180 Resp: 7691
 Ion Ratio Lower Upper
 180 100
 182 96.0 74.5 111.7
 145 28.1 23.4 35.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.335 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

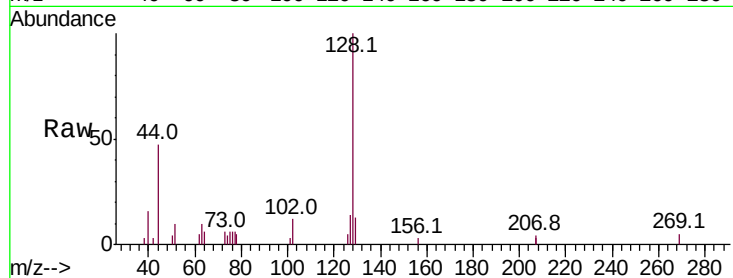
Tot Ion:128 Resp: 6572

Ion Ratio Lower Upper

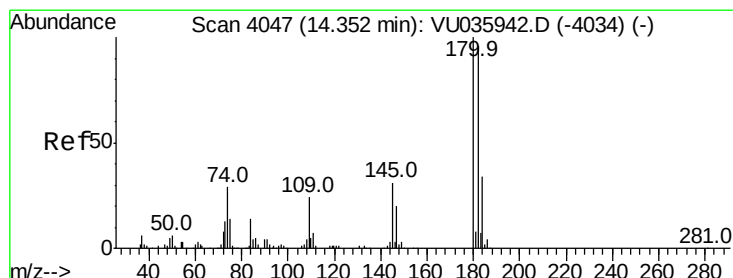
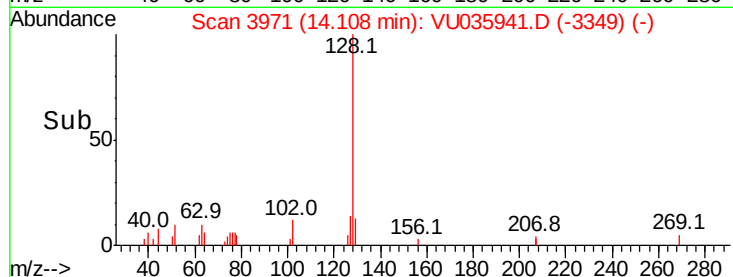
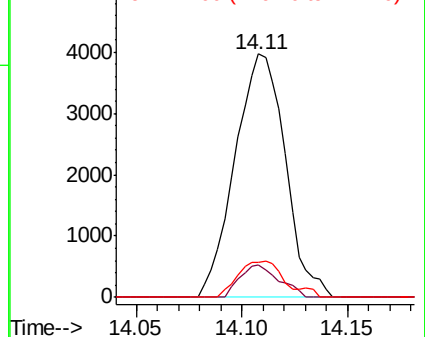
128 100

129 10.3 8.4 12.6

127 13.8 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.497 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035941.D

Acq: 03 Dec 2019 11:19

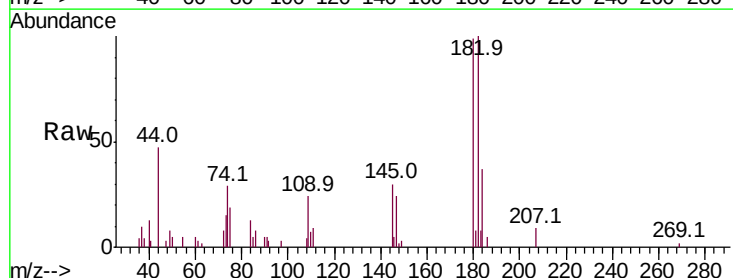
Tgt Ion:180 Resp: 7823

Ion Ratio Lower Upper

180 100

182 102.2 74.6 112.0

145 28.7 24.3 36.5



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

