

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035946.D
 Acq On : 03 Dec 2019 13:38
 Operator : JC/SP
 Sample : VSTD0.504
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Quant Time: Dec 03 18:03:29 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	331442	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	349500	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	135263	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	20560	0.59	ug/L	0.00
7) Chloroethane-d5	1.93	69	16762	0.60	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	29765	0.53	ug/L	0.00
20) 2-Butanone-d5	4.71	46	37014	5.03	ug/L	0.01
24) Chloroform-d	5.11	84	27972	0.52	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	16529	0.59	ug/L	0.00
32) Benzene-d6	5.77	84	52293	0.48	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	17673	0.51	ug/L	0.00
41) Toluene-d8	7.93	98	47777	0.47	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.22	79	6675	0.48	ug/L	0.00
46) 2-Hexanone-d5	8.68	63	23585	4.29	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	16551	0.57	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	16985	0.63	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	18738	0.529 ug/L	100
3) Chloromethane	1.54	50	22388	0.552 ug/L	99
5) Vinyl chloride	1.62	62	20618	0.496 ug/L #	82
6) Bromomethane	1.88	94	12260	0.517 ug/L	91
8) Chloroethane	1.95	64	14436	0.603 ug/L	89
9) Trichlorofluoromethane	2.16	101	24933	0.495 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	13004	0.442 ug/L	91
12) 1,1-Dichloroethene	2.60	96	12433	0.441 ug/L	89
13) Acetone	2.69	43	40900	7.500 ug/L	97
14) Carbon disulfide	2.82	76	46028	0.501 ug/L	99
15) Methyl Acetate	3.00	43	5940	0.481 ug/L #	74
16) Methylene chloride	3.08	84	30085	0.890 ug/L	97
17) Methyl tert-butyl Ether	3.42	73	28159	0.430 ug/L	94
18) trans-1,2-Dichloroethene	3.39	96	13629	0.470 ug/L	91
19) 1,1-Dichloroethane	3.92	63	25853	0.477 ug/L	96
21) 2-Butanone	4.79	43	42823	5.385 ug/L	96
22) cis-1,2-Dichloroethene	4.72	96	13244	0.418 ug/L	99
23) Bromochloromethane	5.02	128	6239	0.414 ug/L	96
25) Chloroform	5.14	83	26516	0.450 ug/L	97
27) 1,2-Dichloroethane	5.84	62	17482	0.527 ug/L #	93
29) 1,1,1-Trichloroethane	5.36	97	21157	0.470 ug/L	98
30) Cyclohexane	5.43	56	19393	0.431 ug/L	97
31) Carbon tetrachloride	5.57	117	18913	0.469 ug/L	100
33) Benzene	5.82	78	52933	0.439 ug/L	100
34) Trichloroethene	6.58	95	14493	0.474 ug/L	96
35) Methylcyclohexane	6.80	83	18360	0.394 ug/L	94
37) 1,2-Dichloropropane	6.83	63	15608	0.491 ug/L #	97
38) Bromodichloromethane	7.14	83	17553	0.455 ug/L	93
39) cis-1,3-Dichloropropene	7.65	75	19187	0.426 ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	89190	4.853 ug/L	95

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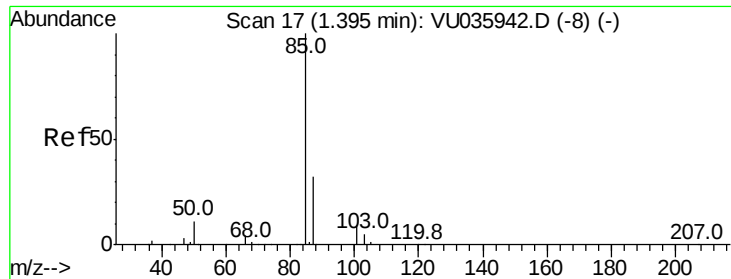
Instrument :
 MSVOA_U
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	8.01	91	54156	0.429	ug/L	96
44) trans-1,3-Dichloropropene	8.25	75	16220	0.449	ug/L	92
45) 1,1,2-Trichloroethane	8.44	97	10118	0.447	ug/L	92
47) Tetrachloroethene	8.58	164	11450	0.435	ug/L	91
48) 2-Hexanone	8.73	43	65642	4.975	ug/L	93
49) Dibromochloromethane	8.84	129	13297	0.480	ug/L	91
50) 1,2-Dibromoethane	8.96	107	10756	0.499	ug/L #	95
51) Chlorobenzene	9.48	112	36263	0.443	ug/L	91
52) Ethylbenzene	9.60	91	52258	0.397	ug/L	99
53) m,p-Xylene	9.72	106	18791	0.376	ug/L	91
54) o-Xylene	10.13	106	17145	0.358	ug/L	93
55) Styrene	10.14	104	27020	0.340	ug/L	91
56) Isopropylbenzene	10.51	105	45177	0.359	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.81	83	14606	0.492	ug/L	94
59) 1,2,3-Trichloropropane	10.85	75	10516	0.502	ug/L	98
61) Bromoform	10.32	173	7709	0.629	ug/L	98
62) 1,3-Dichlorobenzene	11.77	146	24465	0.537	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	25047	0.571	ug/L	97
65) 1,2-Dichlorobenzene	12.24	146	23103	0.540	ug/L	92
66) 1,2-Dibromo-3-chloropropan	13.03	75	2049	0.731	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	15662	0.534	ug/L	97
68) 1,2,4-trichlorobenzene	13.86	180	6384	0.363	ug/L	96
69) Naphthalene	14.11	128	6773	0.320	ug/L	98
70) 1,2,3-Trichlorobenzene	14.35	180	7172	0.423	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 0.529 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

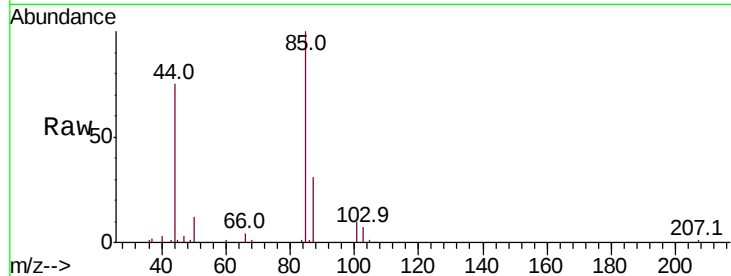
VSTD0.504

Tot Ion: 85 Resp: 18738

Ion Ratio Lower Upper

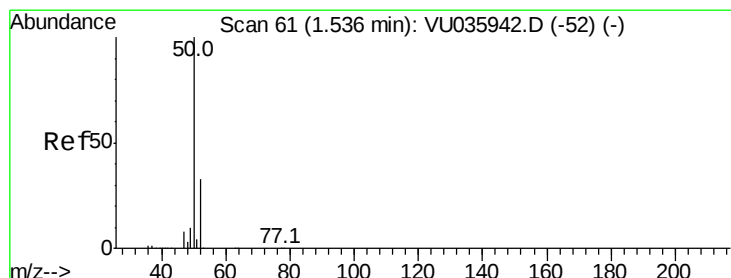
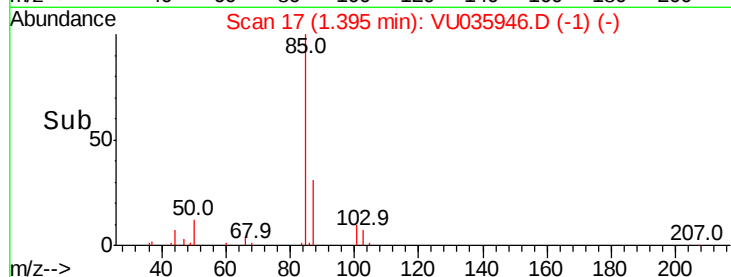
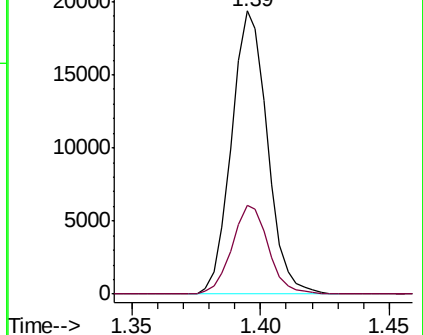
85 100

87 32.0 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU035946.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU035946.D (-8) (-)



#3

Chloromethane

Concen: 0.552 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035946.D

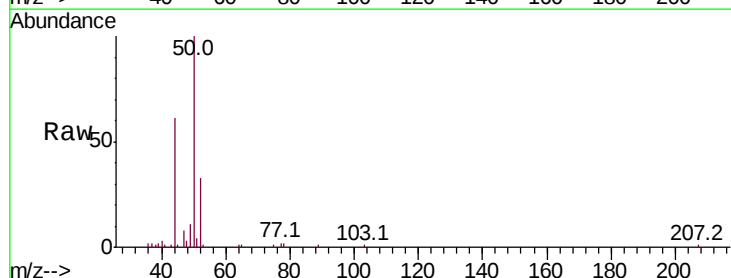
Acq: 03 Dec 2019 13:38

Tgt Ion: 50 Resp: 22388

Ion Ratio Lower Upper

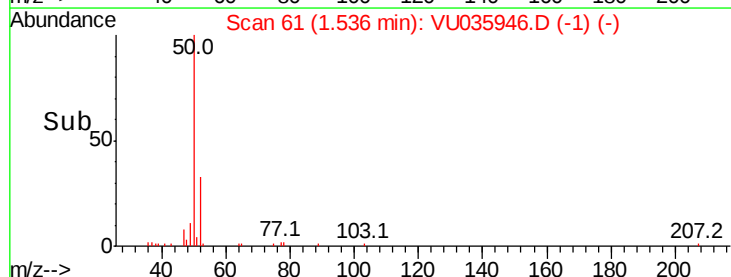
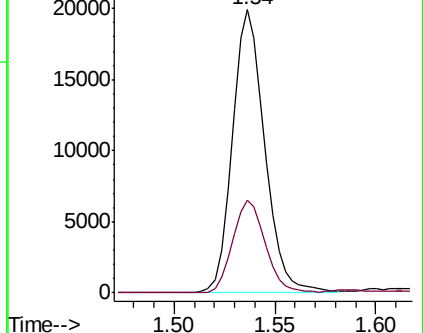
50 100

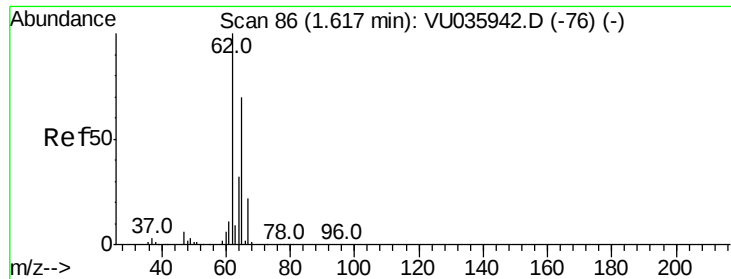
52 32.6 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU035946.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU035946.D (-52) (-)





#5

Vinyl chloride

Concen: 0.496 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

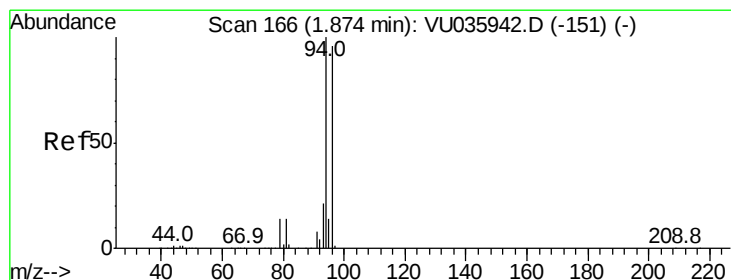
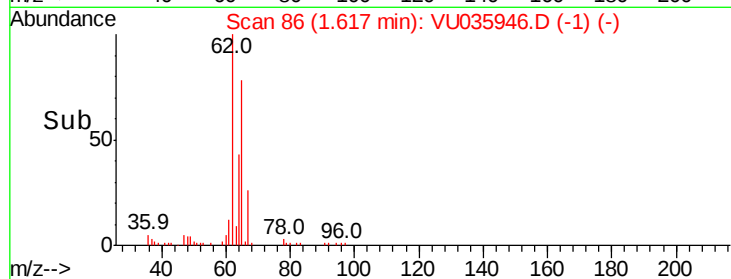
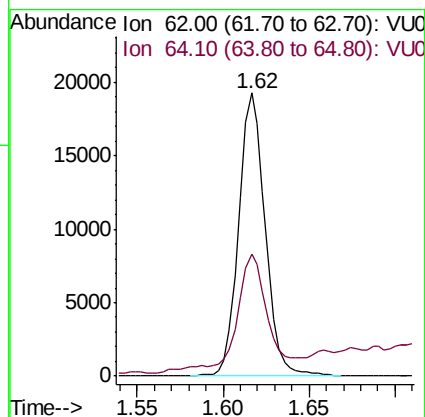
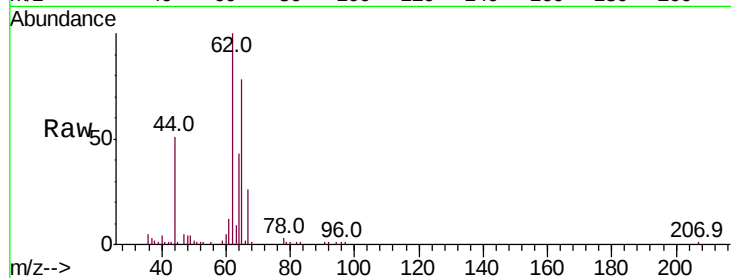
VSTD0.504

Tot Ion: 62 Resp: 20618

Ion Ratio Lower Upper

62 100

64 43.1 23.0 42.6#



#6

Bromomethane

Concen: 0.517 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035946.D

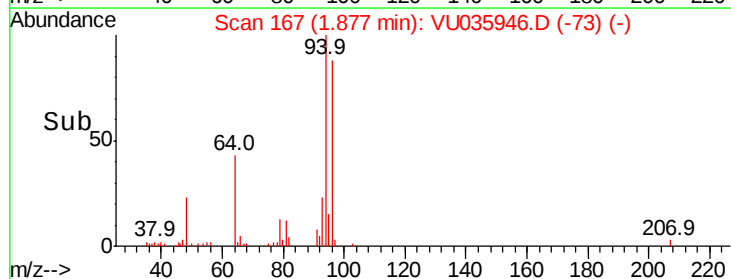
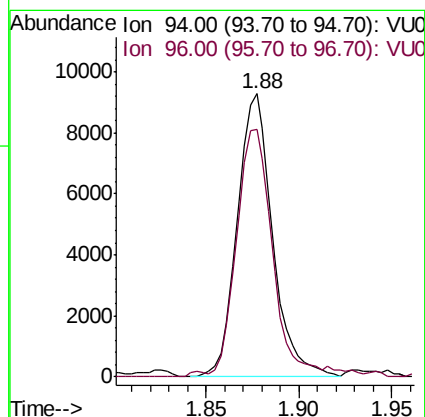
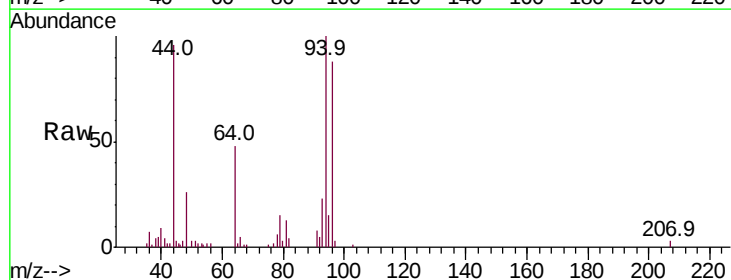
Acq: 03 Dec 2019 13:38

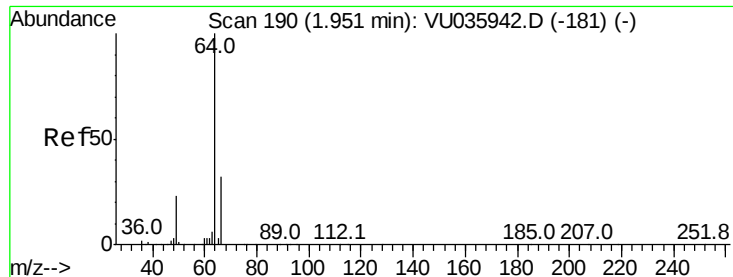
Tgt Ion: 94 Resp: 12260

Ion Ratio Lower Upper

94 100

96 87.6 67.3 124.9





#8

Chloroethane

Concen: 0.603 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

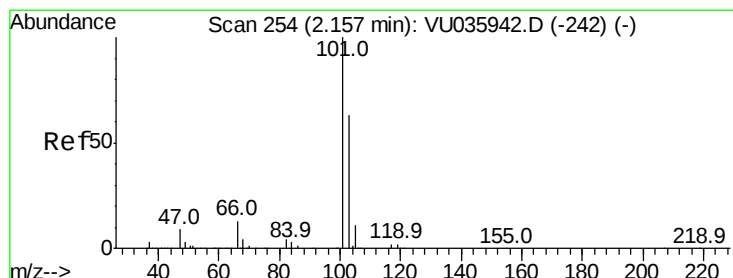
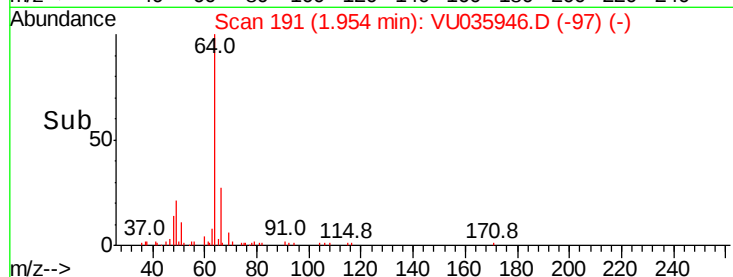
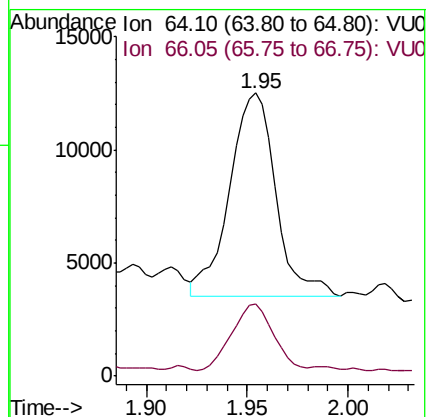
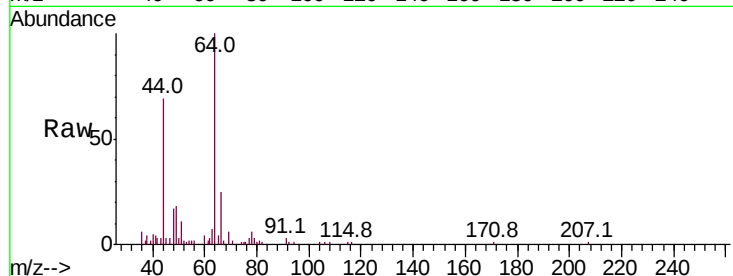
VSTD0.504

Tot Ion: 64 Resp: 14436

Ion Ratio Lower Upper

64 100

66 25.4 22.0 40.8



#9

Trichlorofluoromethane

Concen: 0.495 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU035946.D

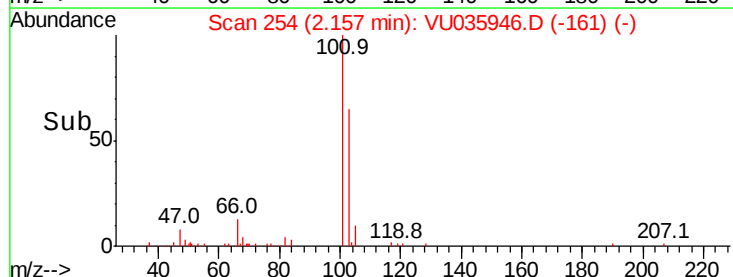
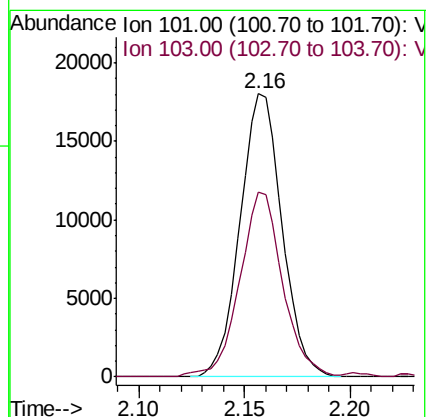
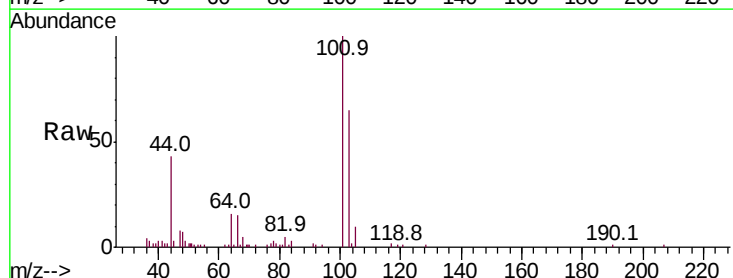
Acq: 03 Dec 2019 13:38

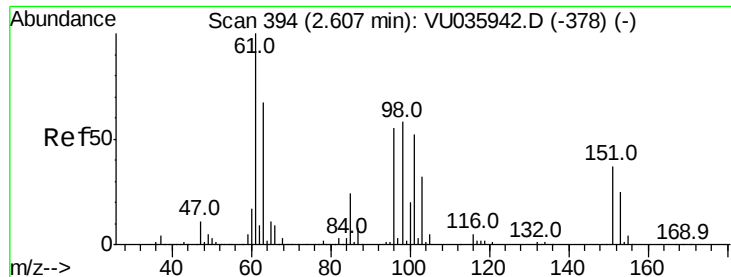
Tgt Ion: 101 Resp: 24933

Ion Ratio Lower Upper

101 100

103 66.6 51.8 77.8





#10

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

Concen: 0.442 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

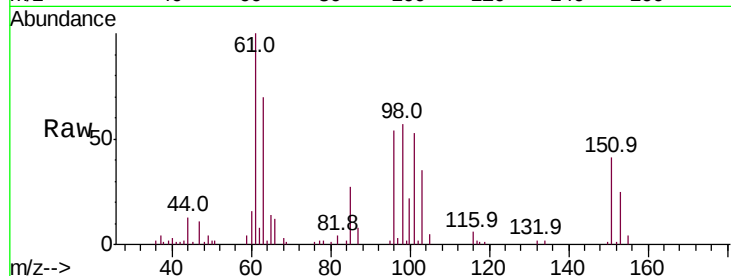
Tot Ion:101 Resp: 13004

Ion Ratio Lower Upper

101 100

85 49.7 35.5 53.3

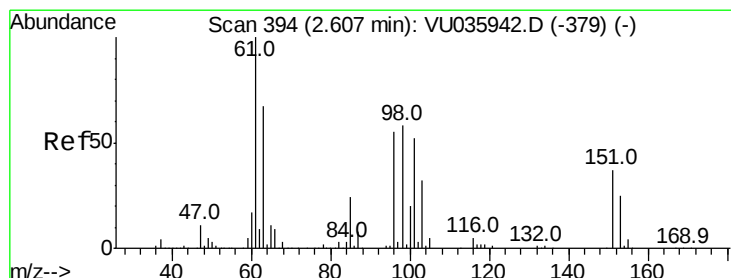
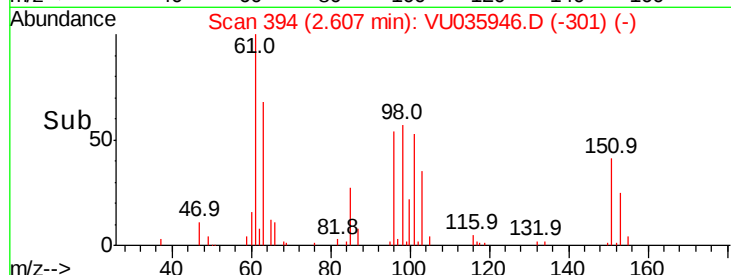
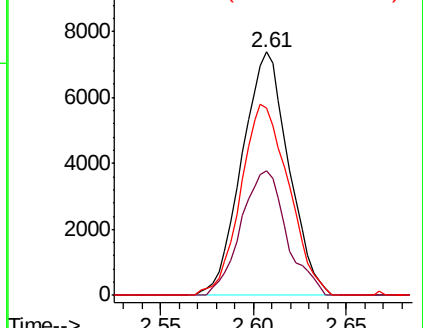
151 80.3 57.5 86.3



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: 0.441 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

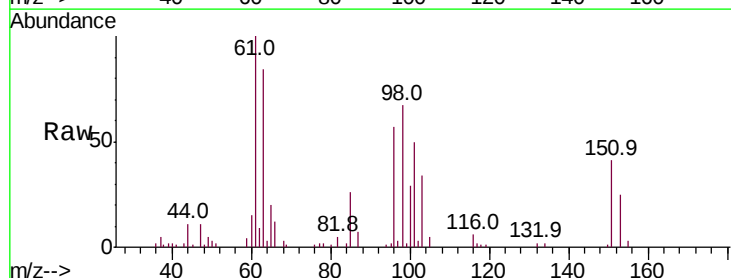
Tgt Ion: 96 Resp: 12433

Ion Ratio Lower Upper

96 100

61 175.1 127.1 236.1

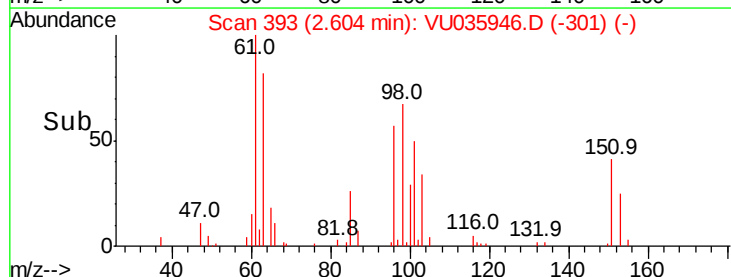
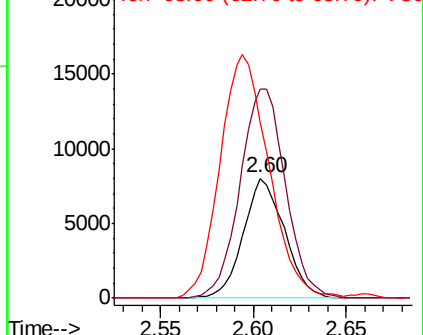
63 146.8 86.0 159.8

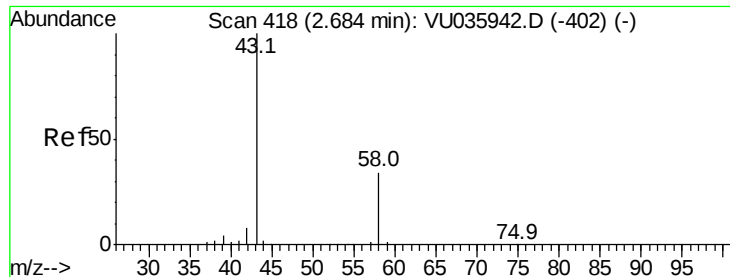


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 7.500 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

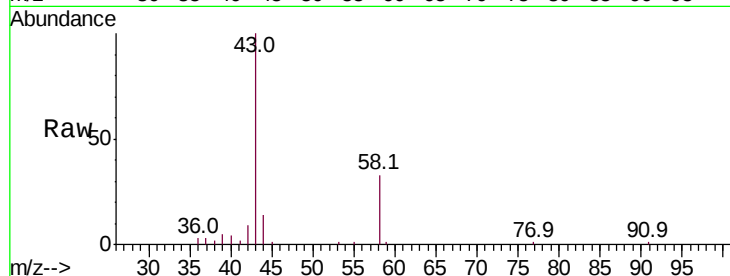
VSTD0.504

Tot Ion: 43 Resp: 40900

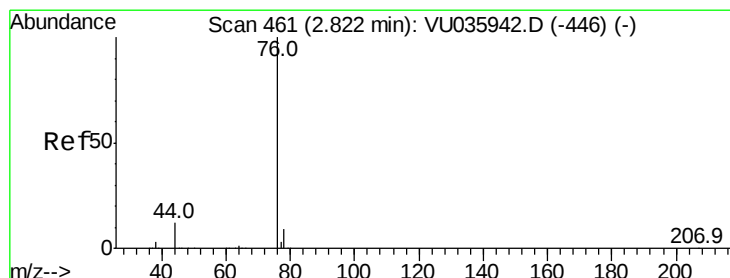
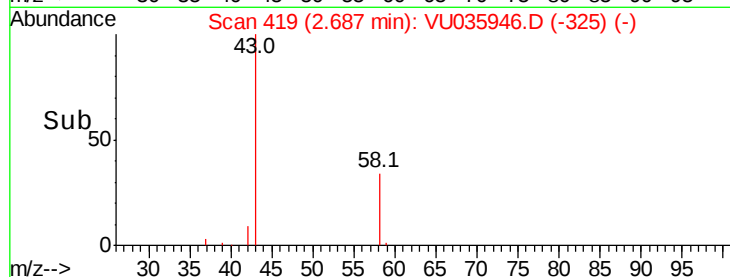
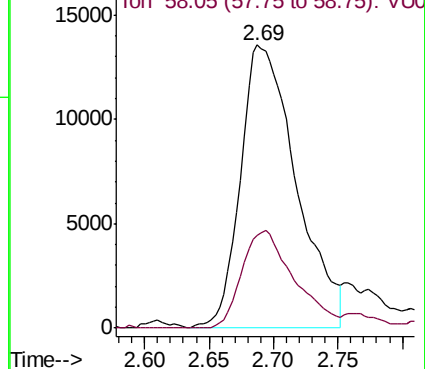
Ion Ratio Lower Upper

43 100

58 32.5 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU035946.D (-402) (-)



#14

Carbon disulfide

Concen: 0.501 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU035946.D

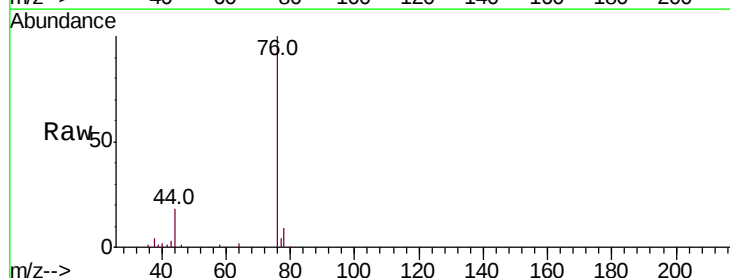
Acq: 03 Dec 2019 13:38

Tgt Ion: 76 Resp: 46028

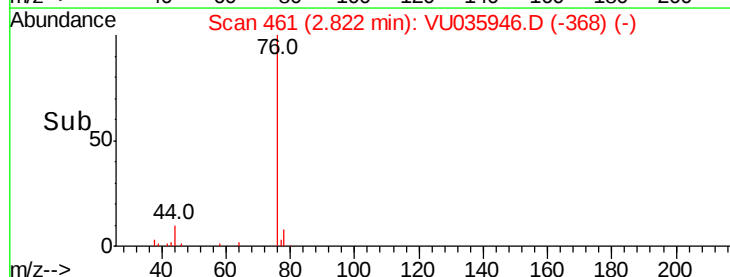
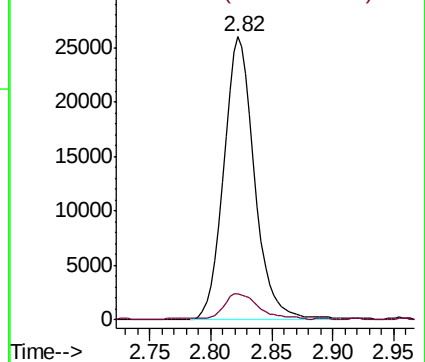
Ion Ratio Lower Upper

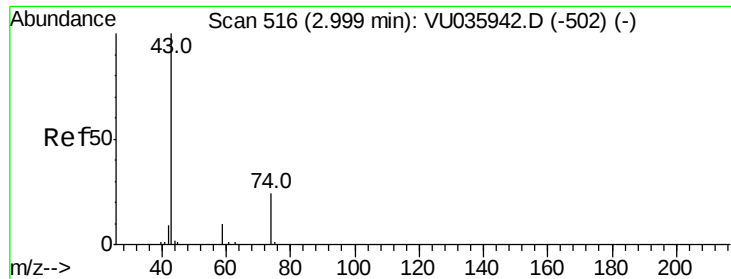
76 100

78 9.1 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU035946.D (-446) (-)

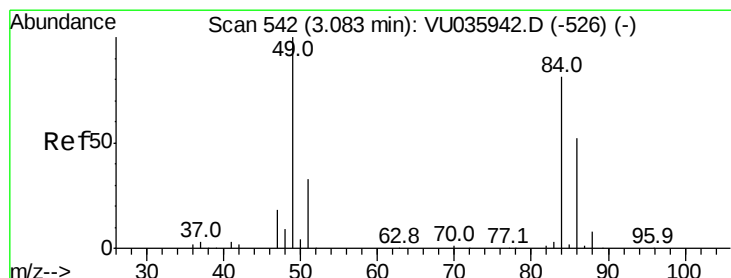
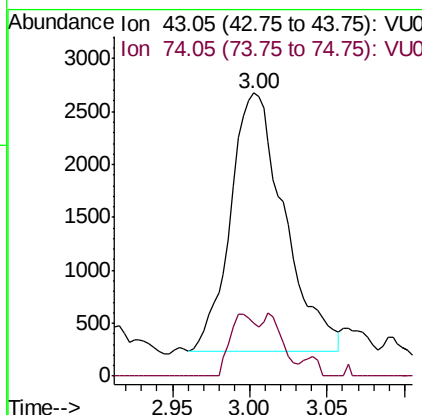
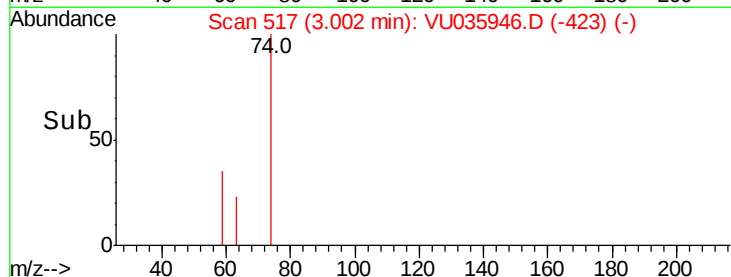
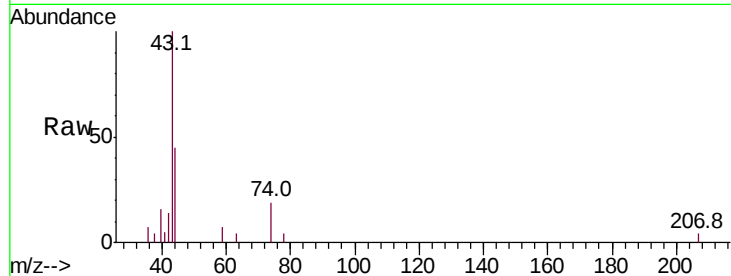




#15
Methvl Acetate
Concen: 0.481 ug/L
RT: 3.00 min Scan# 517
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

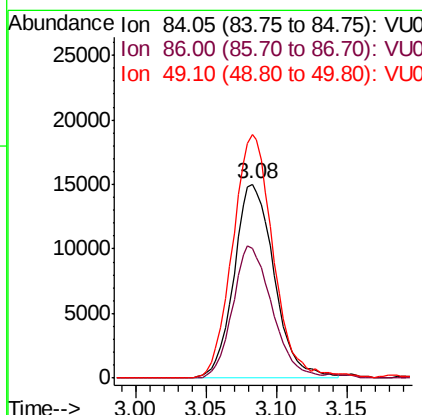
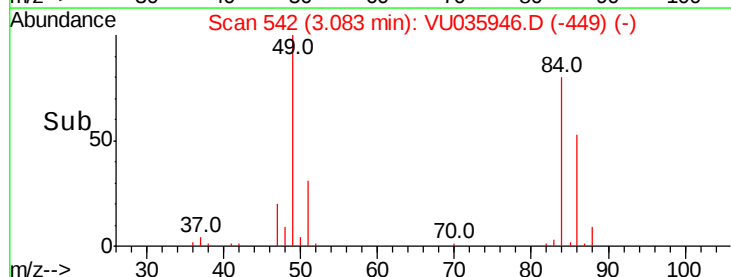
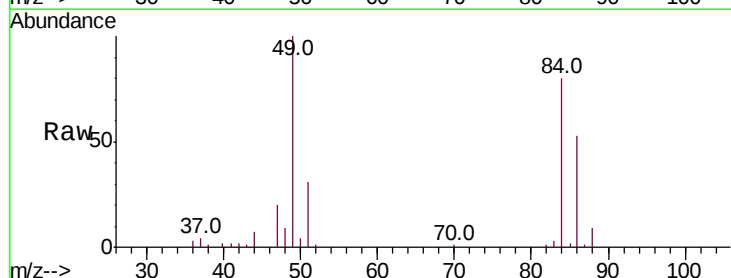
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

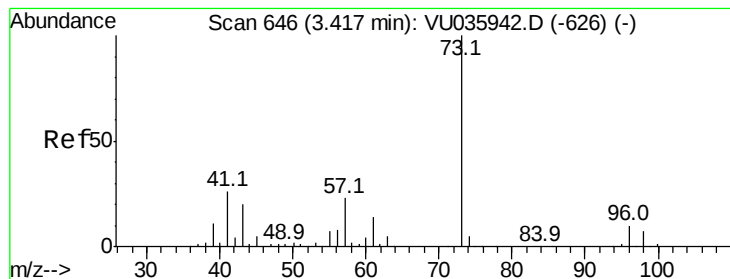
Tot Ion: 43 Resp: 5940
Ion Ratio Lower Upper
43 100
74 11.8 20.0 30.0#



#16
Methylene chloride
Concen: 0.890 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

Tgt Ion: 84 Resp: 30085
Ion Ratio Lower Upper
84 100
86 66.5 44.7 82.9
49 125.5 86.2 160.2



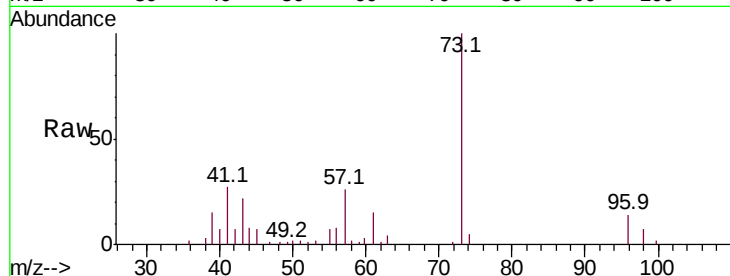


#17

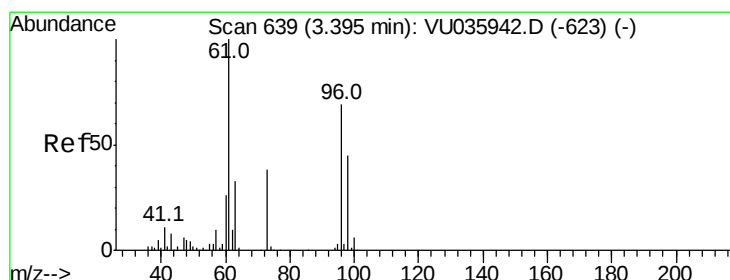
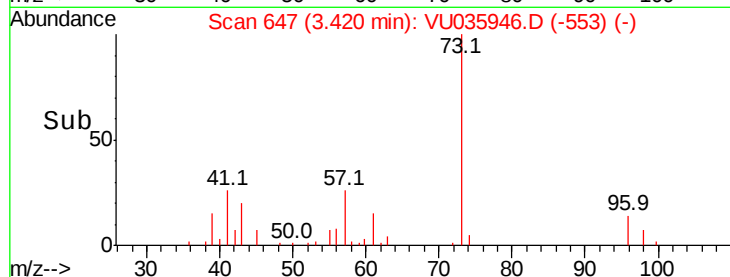
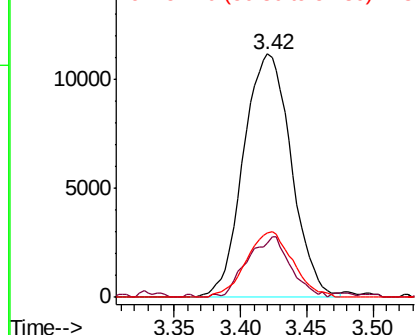
Methvl tert-butvl Ether
 Concen: 0.430 ug/L
 RT: 3.42 min Scan# 647
 Delta R.T. 0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Tot Ion	Ratio	Lower	Upper
73	100		
43	22.6	15.9	23.9
57	26.1	18.8	28.2



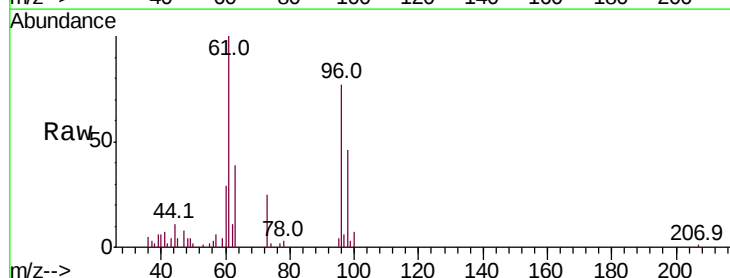
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



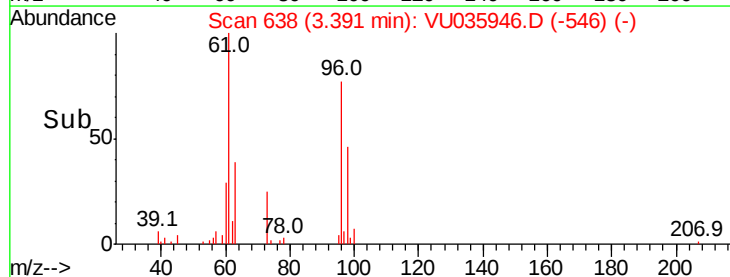
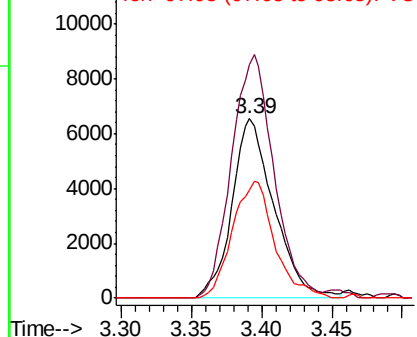
#18

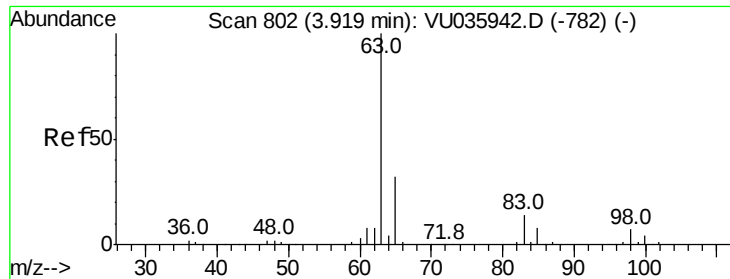
trans-1,2-Dichloroethene
 Concen: 0.470 ug/L
 RT: 3.39 min Scan# 638
 Delta R.T. -0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.5	101.2	187.8
98	60.1	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

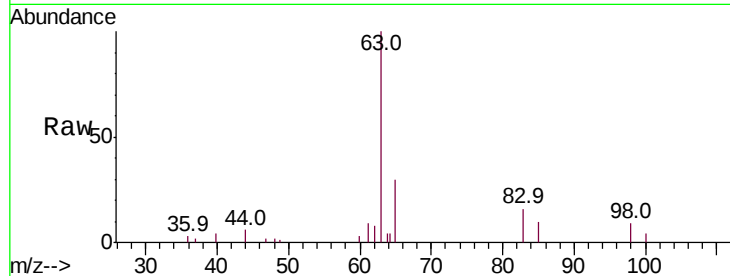




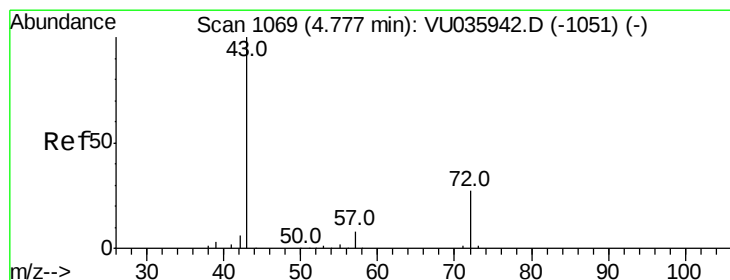
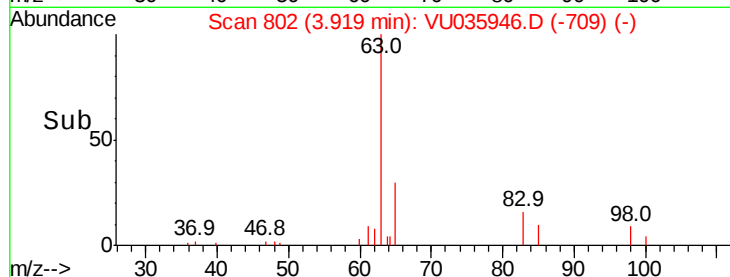
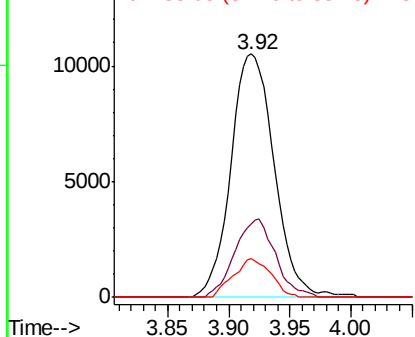
#19
 1,1-Dichloroethane
 Concen: 0.477 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Tot Ion: 63 Resp: 25853
 Ion Ratio Lower Upper
 63 100
 65 30.0 22.4 41.6
 83 16.0 9.8 18.2

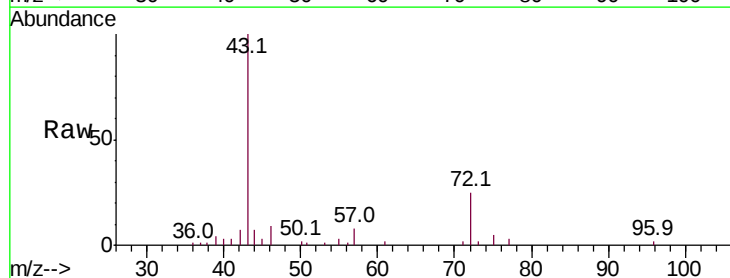


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

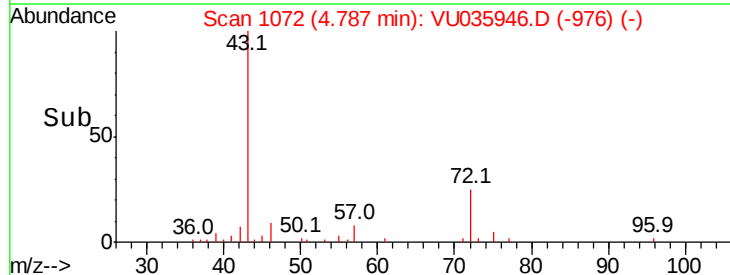
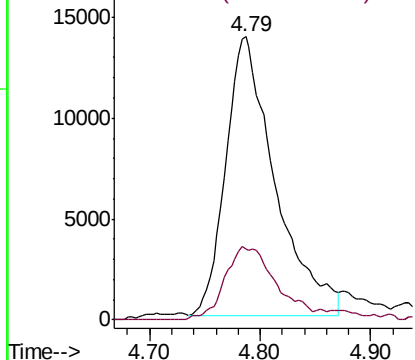


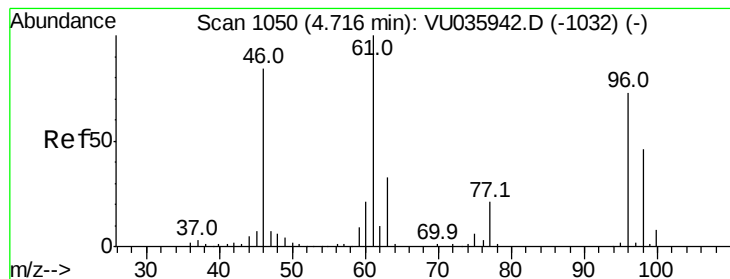
#21
 2-Butanone
 Concen: 5.385 ug/L
 RT: 4.79 min Scan# 1072
 Delta R.T. 0.01 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

Tgt Ion: 43 Resp: 42823
 Ion Ratio Lower Upper
 43 100
 72 27.0 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: 0.418 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

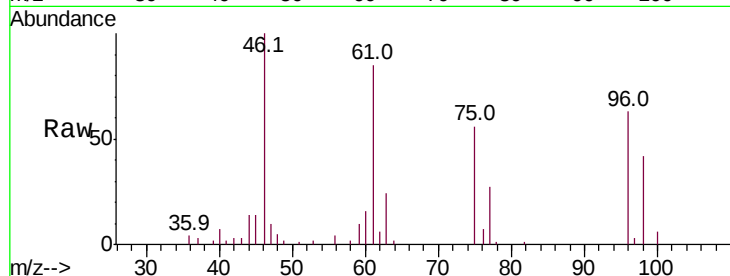
Tot Ion: 96 Resp: 13244

Ion Ratio Lower Upper

96 100

61 135.0 95.7 177.7

68 0.0 0.0 0.0

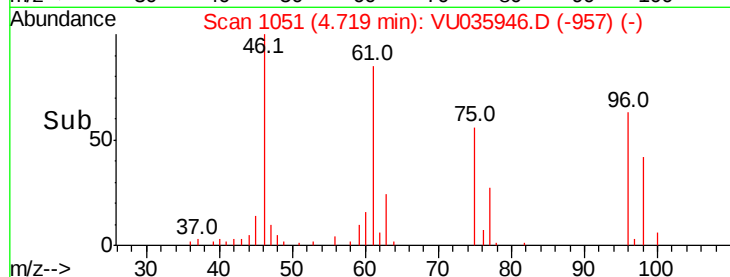


Abundance Ion 96.00 (95.70 to 96.70): VU035946.D (-1051) (-)

Ion 61.05 (60.75 to 61.75): VU035946.D (-1051) (-)

Ion 68.15 (67.85 to 68.85): VU035946.D (-1051) (-)

Time-->

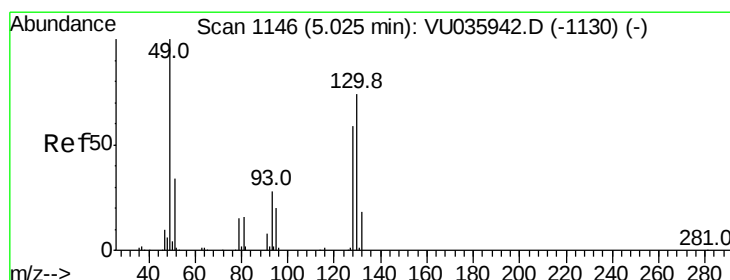


Abundance Ion 96.00 (95.70 to 96.70): VU035946.D (-1051) (-)

Ion 61.05 (60.75 to 61.75): VU035946.D (-1051) (-)

Ion 68.15 (67.85 to 68.85): VU035946.D (-1051) (-)

Time-->



#23

Bromochloromethane

Concen: 0.414 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Tgt Ion: 128 Resp: 6239

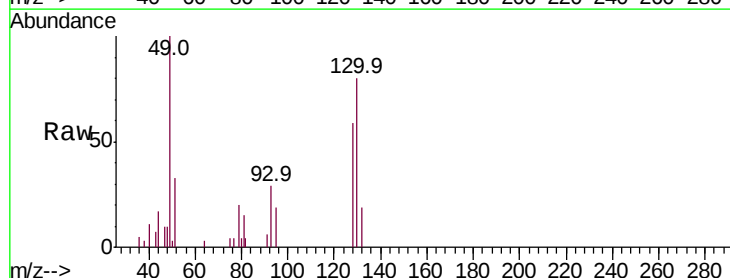
Ion Ratio Lower Upper

128 100

49 169.1 118.3 219.7

130 136.1 86.9 161.3

51 55.0 45.6 68.4



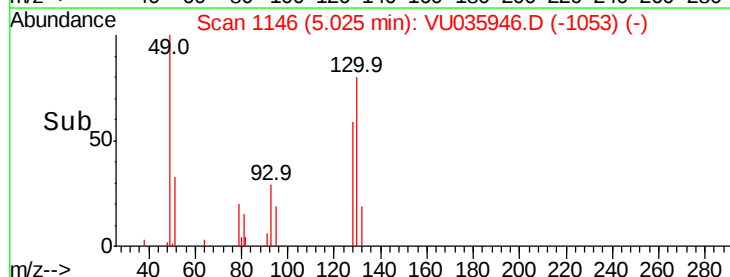
Abundance Ion 127.90 (127.60 to 128.60): VU035946.D (-1146) (-)

Ion 49.10 (48.80 to 49.80): VU035946.D (-1146) (-)

Ion 129.95 (129.65 to 130.65): VU035946.D (-1146) (-)

Ion 51.05 (50.75 to 51.75): VU035946.D (-1146) (-)

Time-->



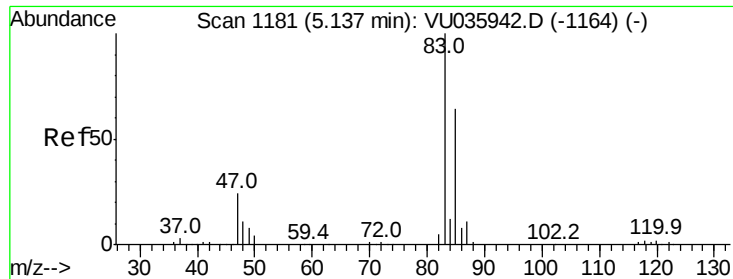
Abundance Ion 127.90 (127.60 to 128.60): VU035946.D (-1146) (-)

Ion 49.10 (48.80 to 49.80): VU035946.D (-1146) (-)

Ion 129.95 (129.65 to 130.65): VU035946.D (-1146) (-)

Ion 51.05 (50.75 to 51.75): VU035946.D (-1146) (-)

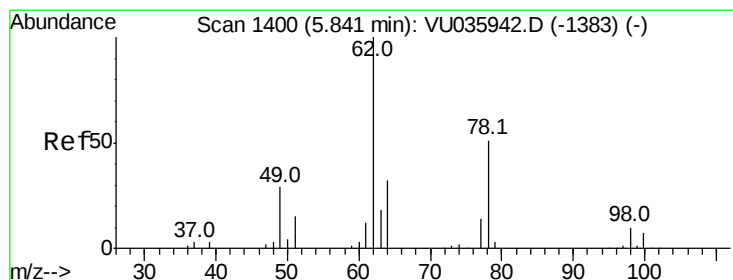
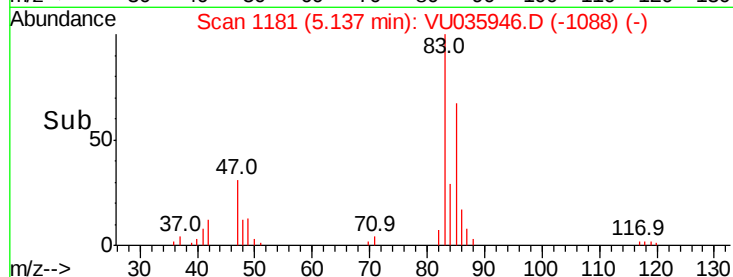
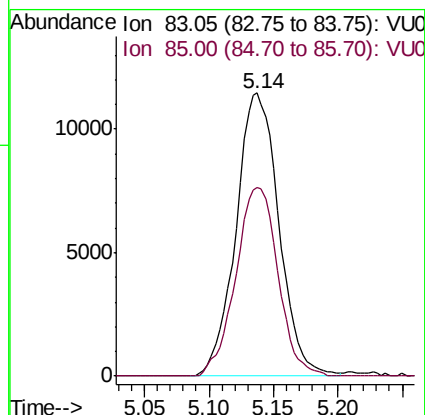
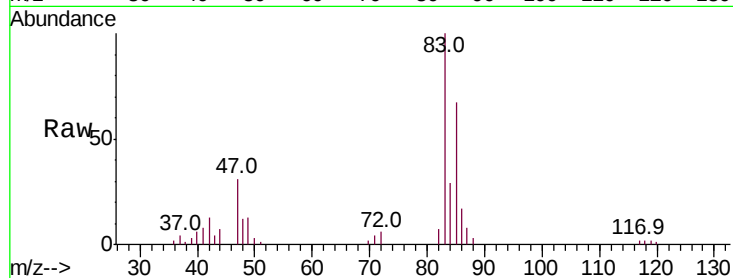
Time-->



#25
Chloroform
Concen: 0.450 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

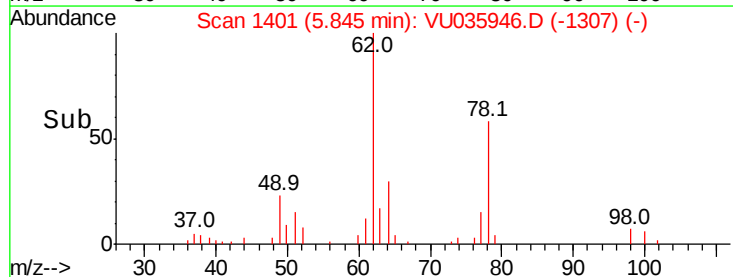
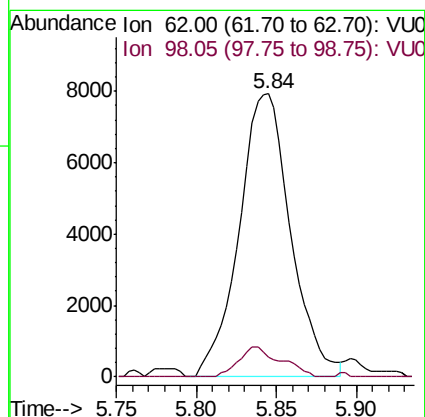
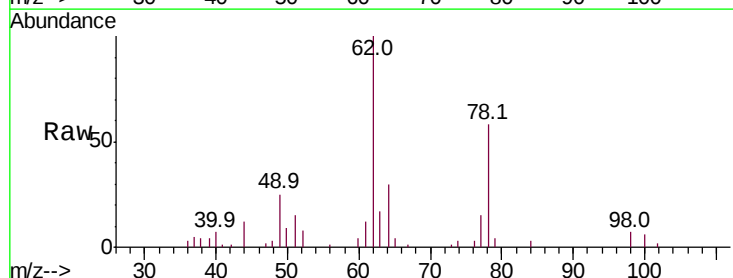
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

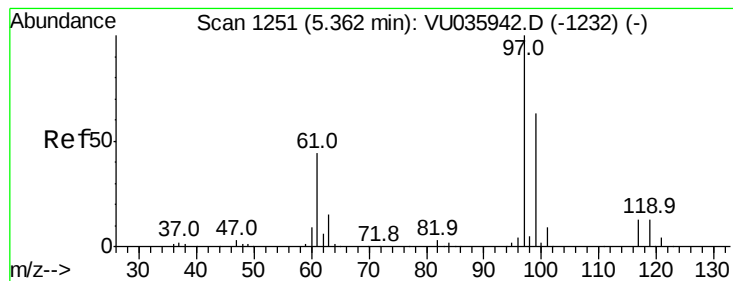
Tot Ion: 83 Resp: 26516
Ion Ratio Lower Upper
83 100
85 66.8 45.4 84.2



#27
1,2-Dichloroethane
Concen: 0.527 ug/L
RT: 5.84 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

Tgt Ion: 62 Resp: 17482
Ion Ratio Lower Upper
62 100
98 7.1 7.6 11.4#





#29

1,1,1-Trichloroethane

Concen: 0.470 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

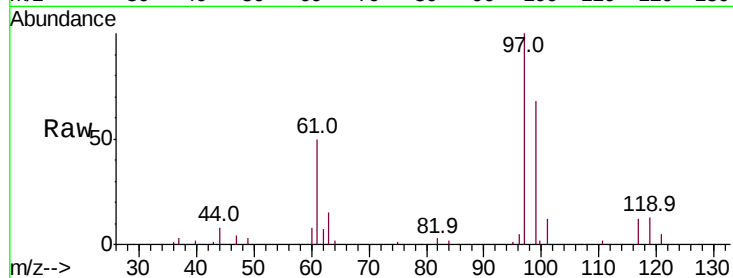
Tot Ion: 97 Resp: 21157

Ion Ratio Lower Upper

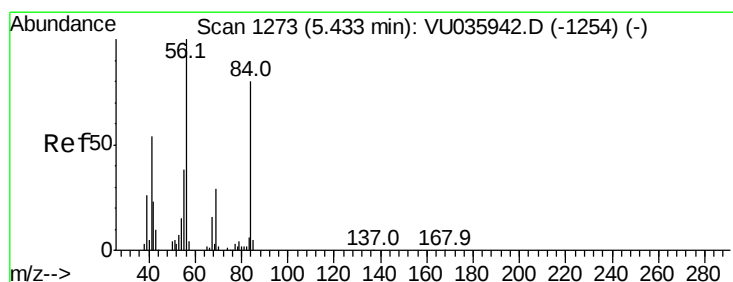
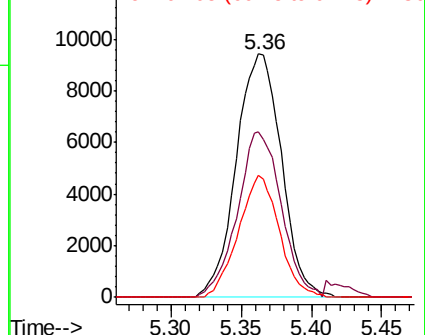
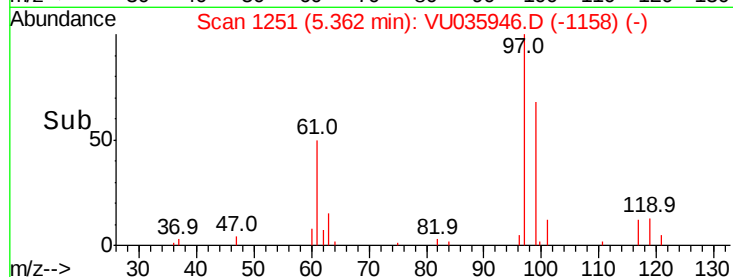
97 100

99 65.8 51.8 77.8

61 45.2 37.6 56.4



Abundance Ion 96.95 (96.65 to 97.65): VU035946.D (-1158) (-)



#30

Cyclohexane

Concen: 0.431 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

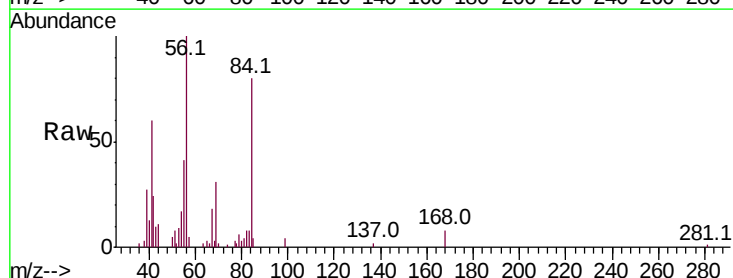
Tgt Ion: 56 Resp: 19393

Ion Ratio Lower Upper

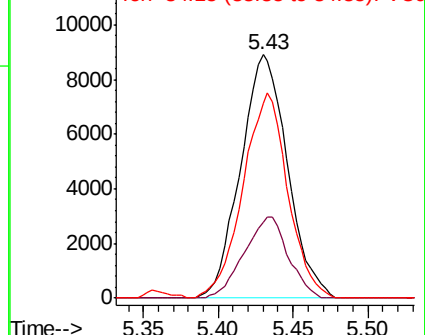
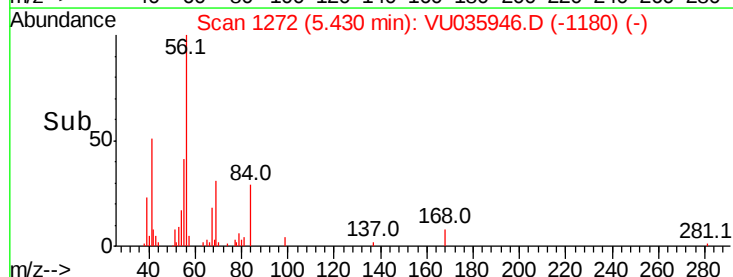
56 100

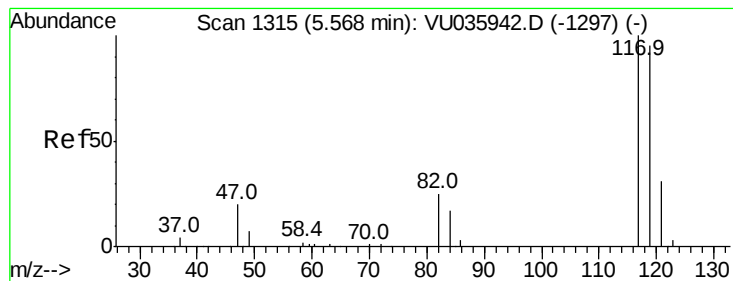
69 31.3 24.0 36.0

84 80.7 66.9 100.3



Abundance Ion 56.10 (55.80 to 56.80): VU035946.D (-1180) (-)





#31

Carbon tetrachloride

Concen: 0.469 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

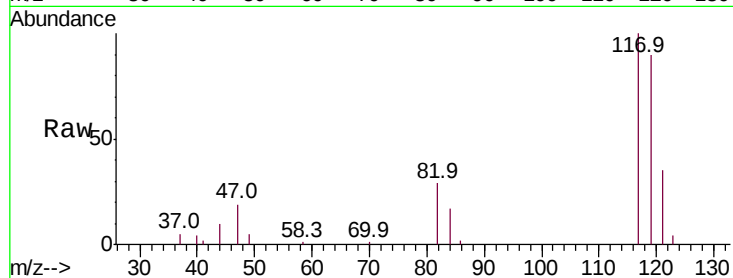
VSTD0.504

Tot Ion:117 Resp: 18913

Ion Ratio Lower Upper

117 100

119 96.2 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.57

8000

6000

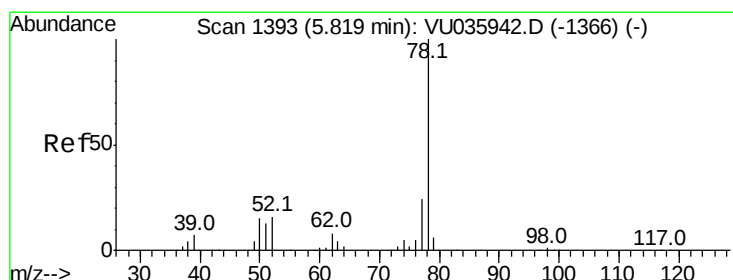
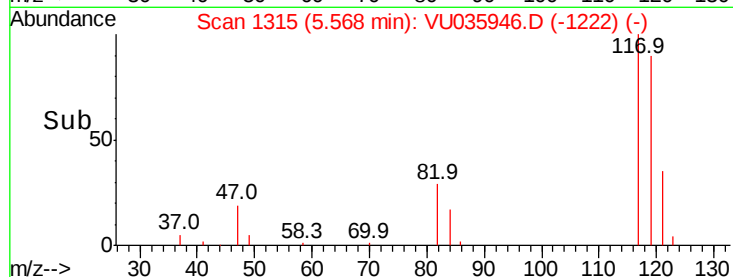
4000

2000

0

Time-->

5.50 5.55 5.60 5.65



#33

Benzene

Concen: 0.439 ug/L

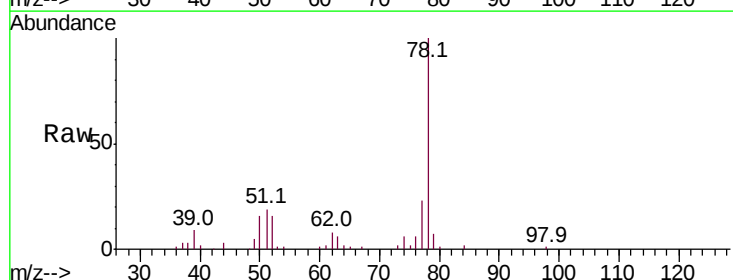
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Tgt Ion: 78 Resp: 52933



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.82

25000

20000

15000

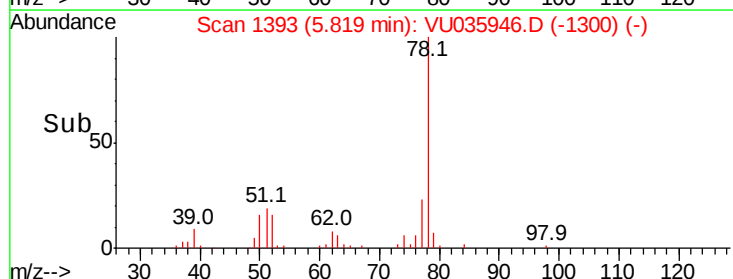
10000

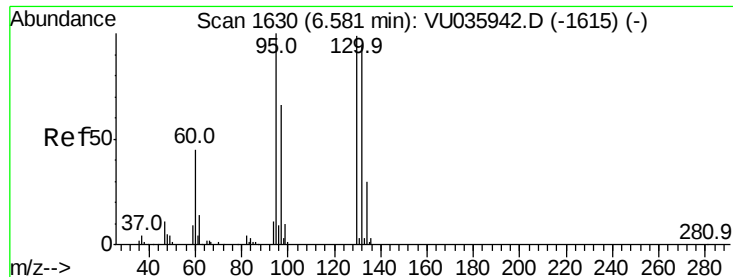
5000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 0.474 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

Tot Ion: 95 Resp: 14493

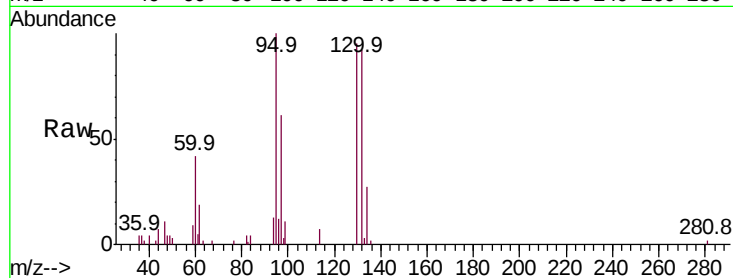
Ion Ratio Lower Upper

95 100

97 61.1 46.3 85.9

132 92.5 65.7 122.1

130 94.7 69.2 128.6

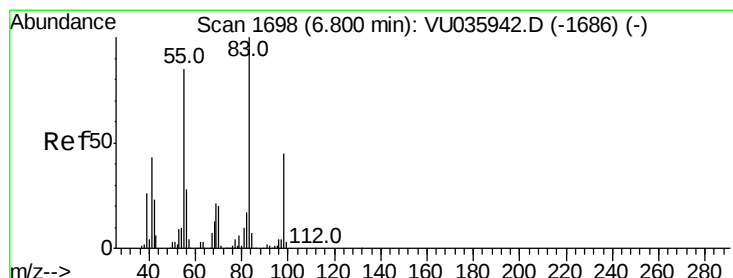
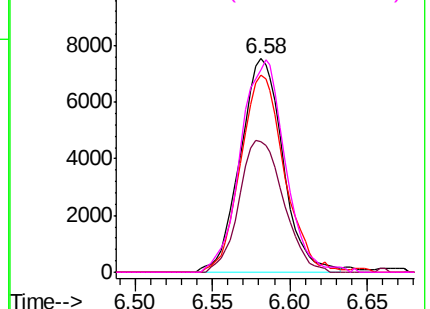
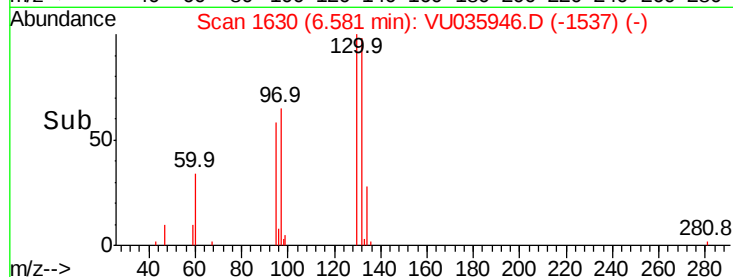


Abundance Ion 95.00 (94.70 to 95.70): VU035942.D (-1615) (-)

Ion 96.95 (96.65 to 97.65): VU035942.D (-1615) (-)

Ion 131.95 (131.65 to 132.65): VU035942.D (-1615) (-)

Ion 129.95 (129.65 to 130.65): VU035942.D (-1615) (-)



#35

Methylcyclohexane

Concen: 0.394 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

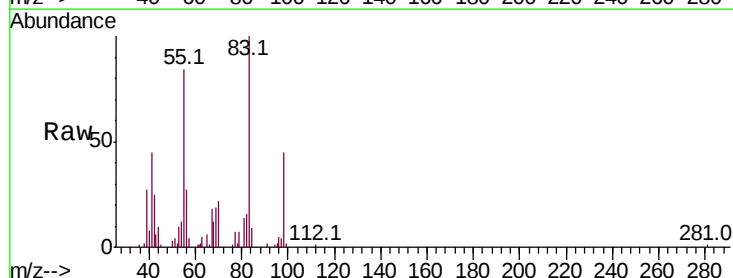
Tgt Ion: 83 Resp: 18360

Ion Ratio Lower Upper

83 100

55 91.6 67.4 101.0

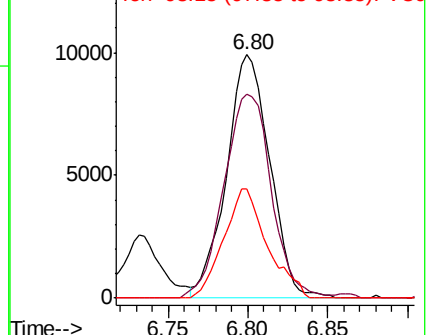
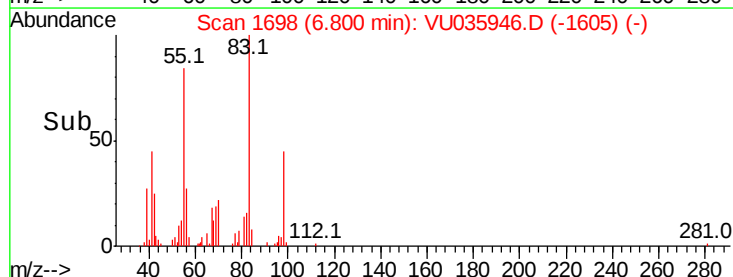
98 45.1 34.6 52.0

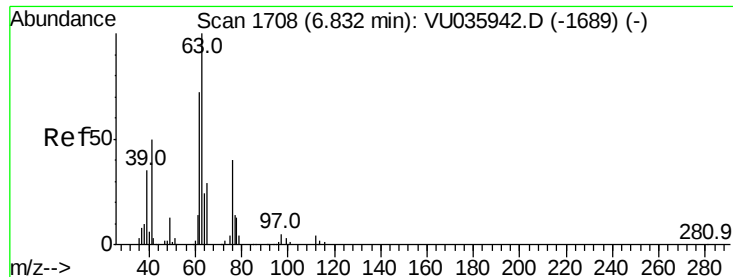


Abundance Ion 83.15 (82.85 to 83.85): VU035942.D (-1686) (-)

Ion 55.10 (54.80 to 55.80): VU035942.D (-1686) (-)

Ion 98.15 (97.85 to 98.85): VU035942.D (-1686) (-)





#37

1,2-Dichloropropane

Concen: 0.491 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

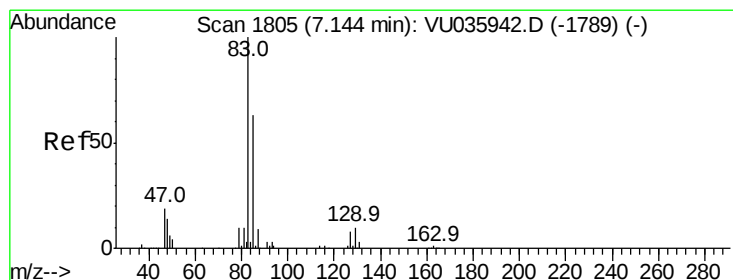
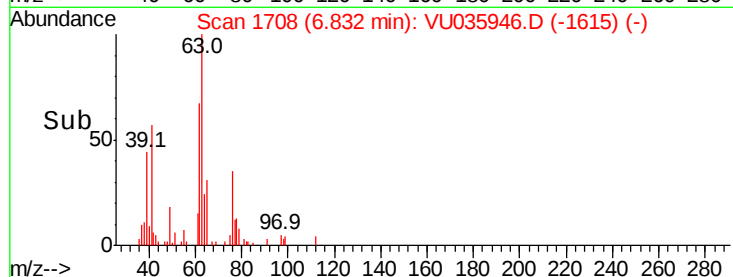
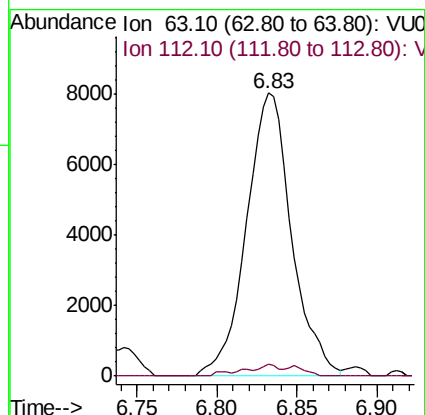
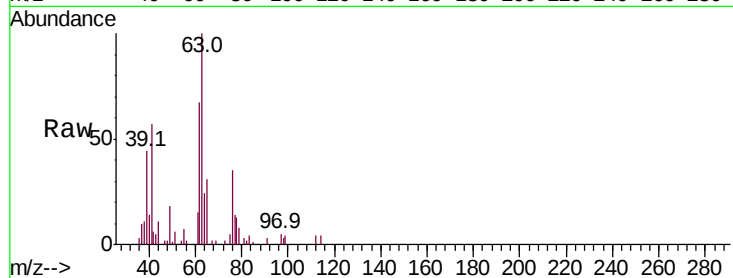
Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

Tot Ion: 63 Resp: 15608

Ion	Ratio	Lower	Upper
63	100		
112	3.3	3.3	4.9#



#38

Bromodichloromethane

Concen: 0.455 ug/L

RT: 7.14 min Scan# 1805

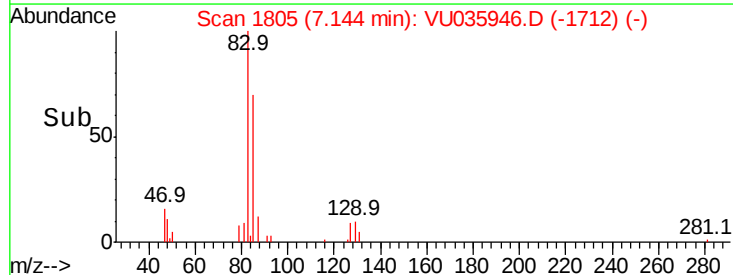
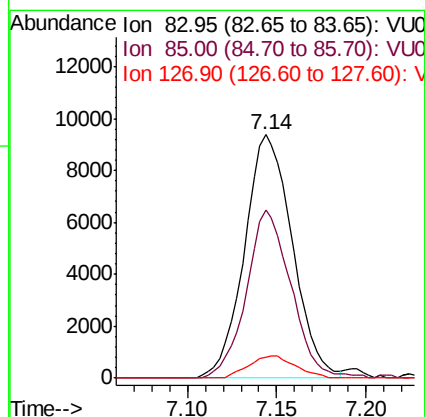
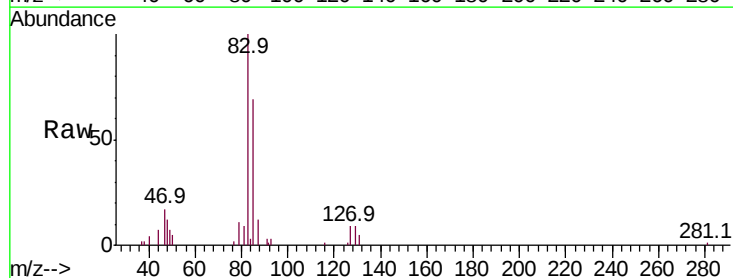
Delta R.T. 0.00 min

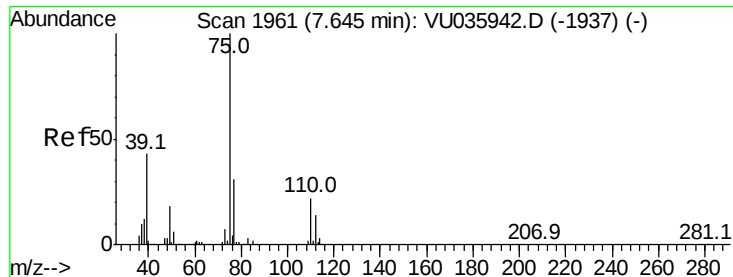
Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Tgt Ion: 83 Resp: 17553

Ion	Ratio	Lower	Upper
83	100		
85	69.1	44.0	81.8
127	8.8	6.5	9.7





#39

cis-1,3-Dichloropropene

Concen: 0.426 ug/L

RT: 7.65 min Scan# 1961

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

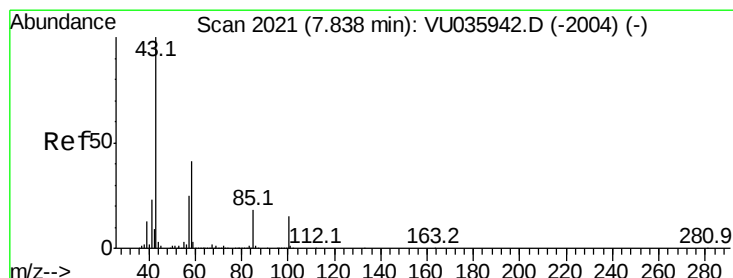
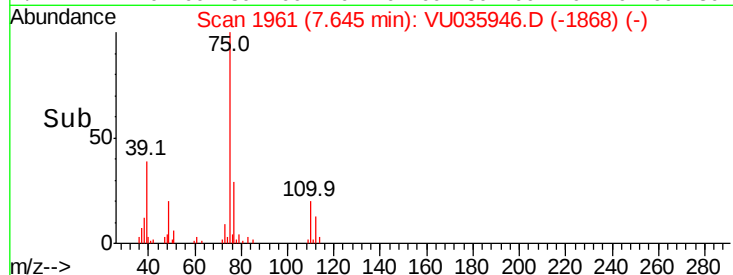
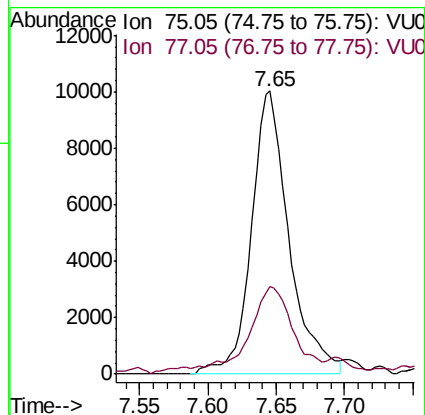
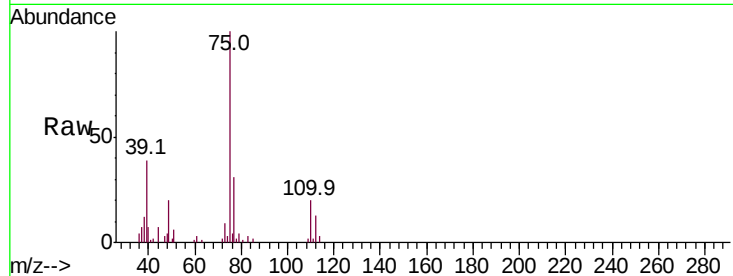
VSTD0.504

Tot Ion: 75 Resp: 19187

Ion Ratio Lower Upper

75 100

77 30.9 21.9 40.7



#40

4-Methyl-2-pentanone

Concen: 4.853 ug/L

RT: 7.84 min Scan# 2022

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

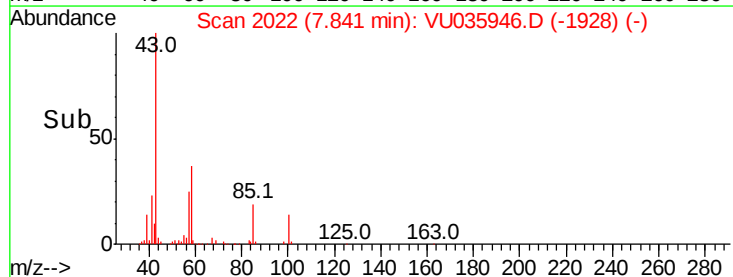
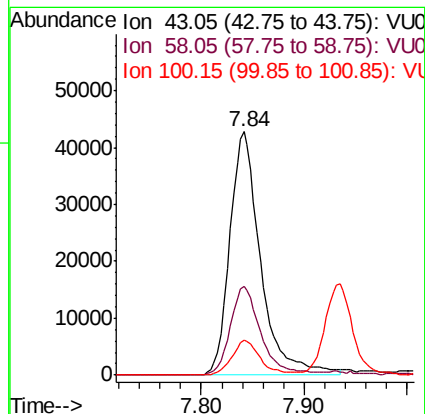
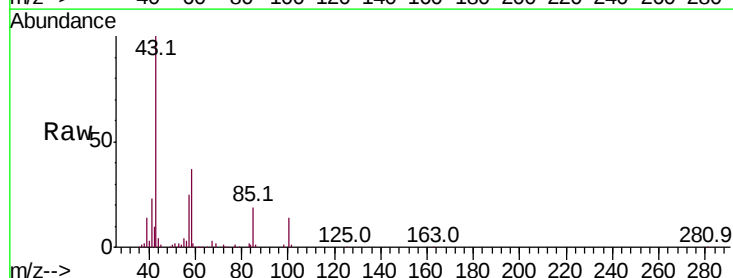
Tgt Ion: 43 Resp: 89190

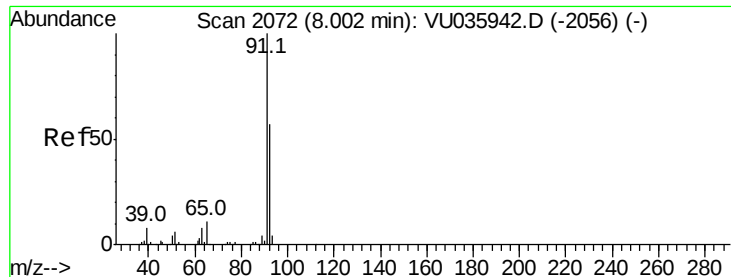
Ion Ratio Lower Upper

43 100

58 36.6 32.3 48.5

100 13.5 11.7 17.5





#42

Toluene

Concen: 0.429 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

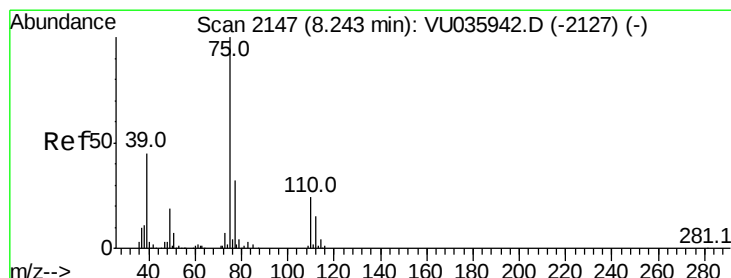
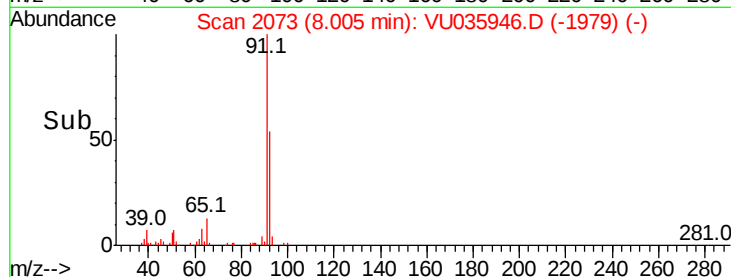
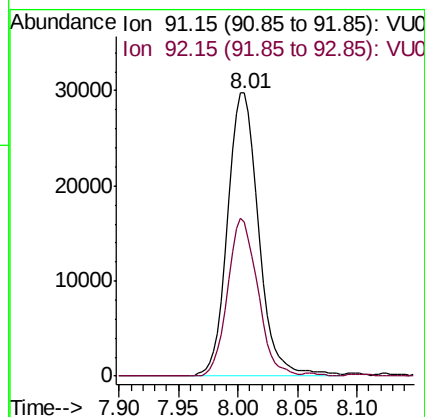
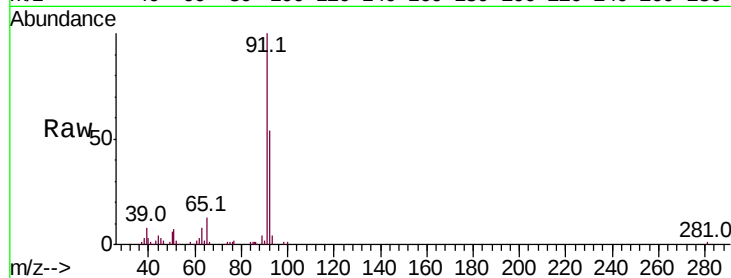
VSTD0.504

Tot Ion: 91 Resp: 54156

Ion Ratio Lower Upper

91 100

92 54.3 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 0.449 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035946.D

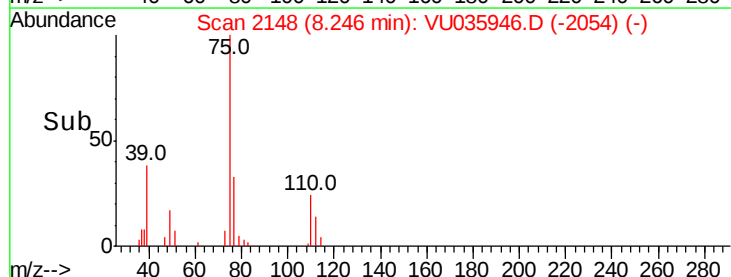
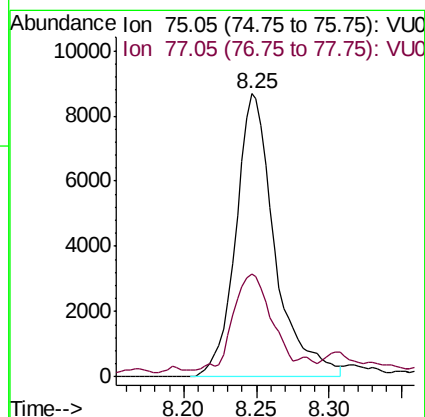
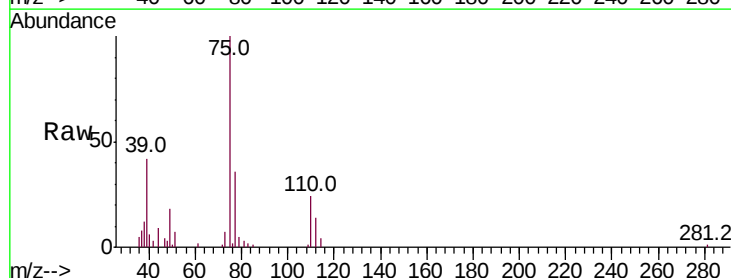
Acq: 03 Dec 2019 13:38

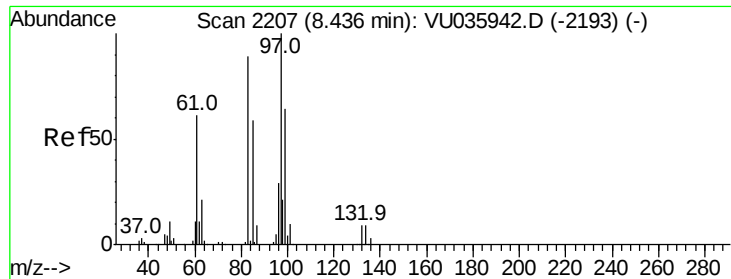
Tgt Ion: 75 Resp: 16220

Ion Ratio Lower Upper

75 100

77 36.4 22.4 41.6

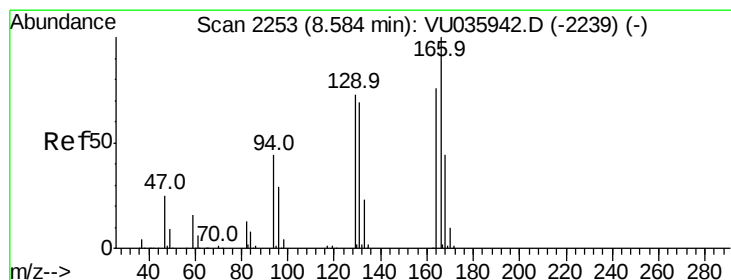
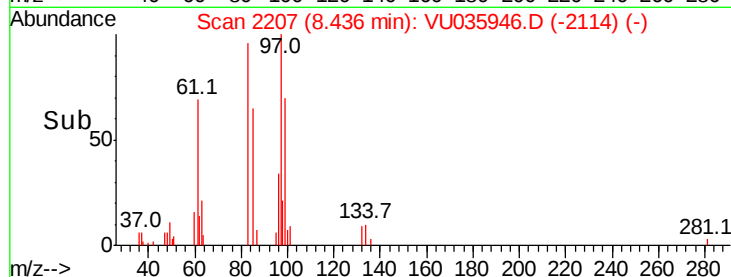
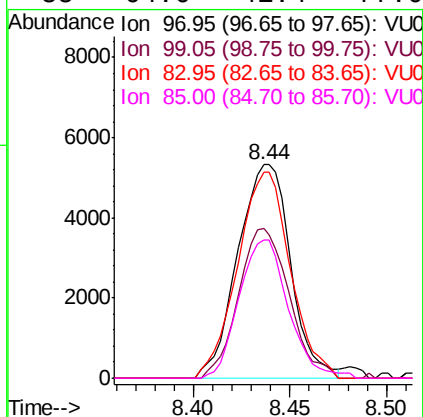
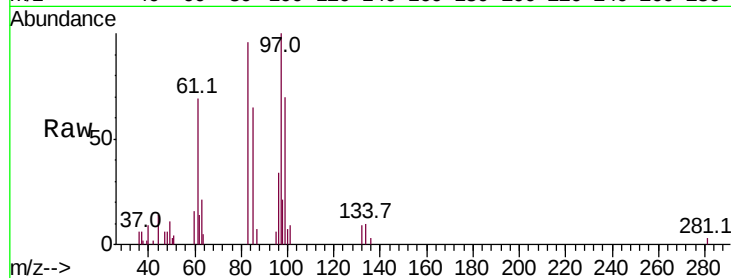




#45
 1,1,2-Trichloroethane
 Concen: 0.447 ug/L
 RT: 8.44 min Scan# 2207
 Delta R.T. 0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

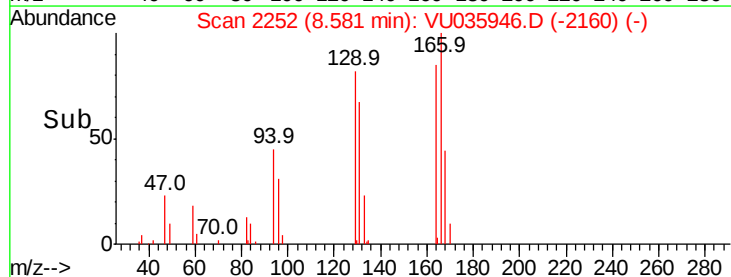
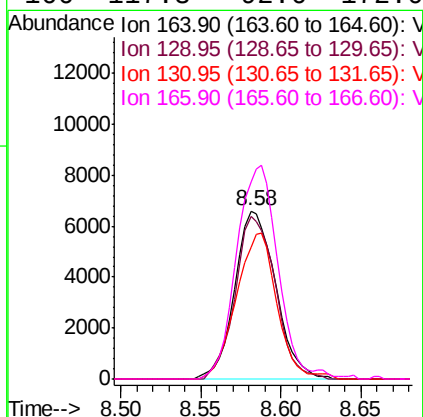
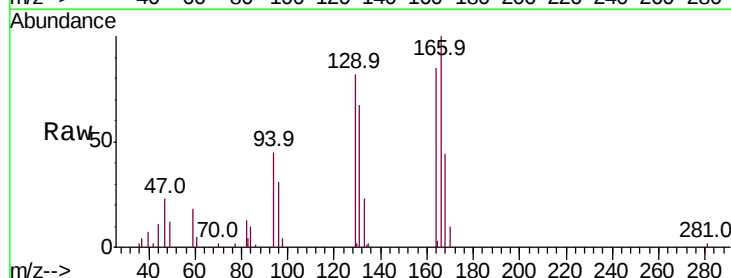
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

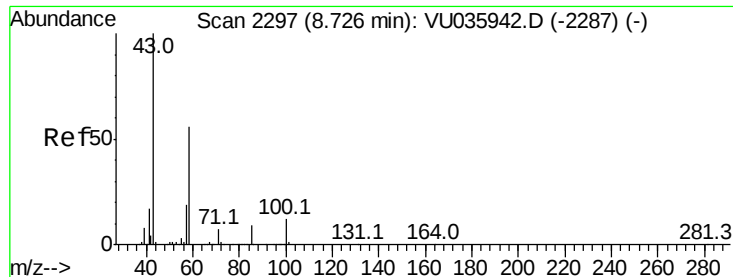
Tot Ion	Ratio	Lower	Upper
97	100		
99	70.4	45.0	83.6
83	96.2	62.1	115.3
85	64.6	41.4	77.0



#47
 Tetrachloroethene
 Concen: 0.435 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

Tgt Ion	Ratio	Lower	Upper
164	100		
129	96.5	67.9	126.1
131	78.6	64.1	119.1
166	117.3	92.6	172.0

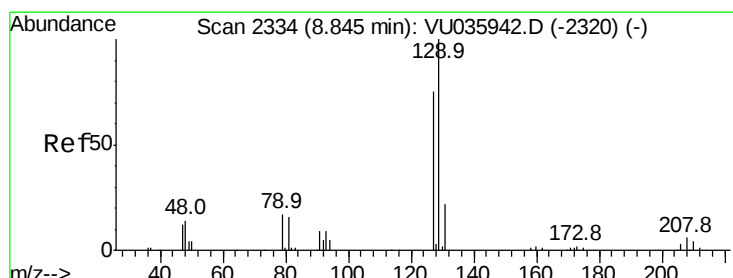
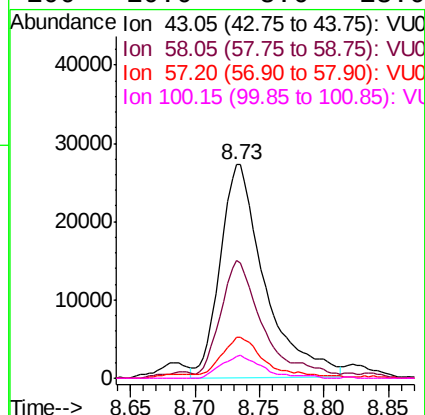
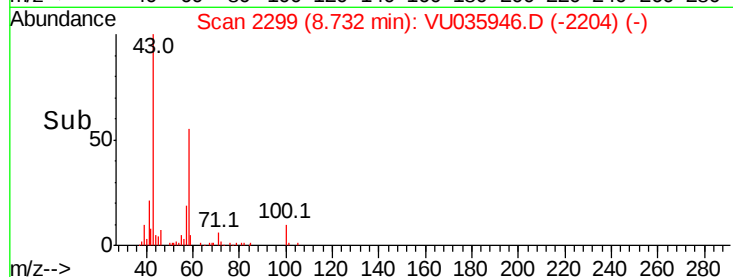
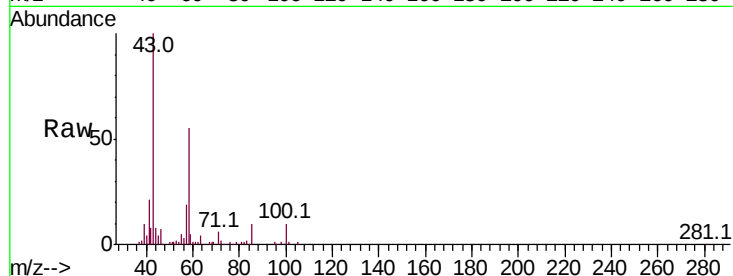




#48
2-Hexanone
Concen: 4.975 ug/L
RT: 8.73 min Scan# 2299
Delta R.T. 0.01 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

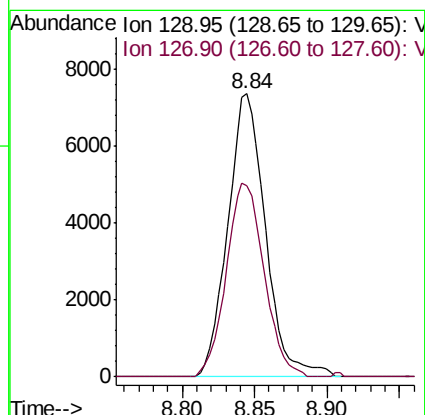
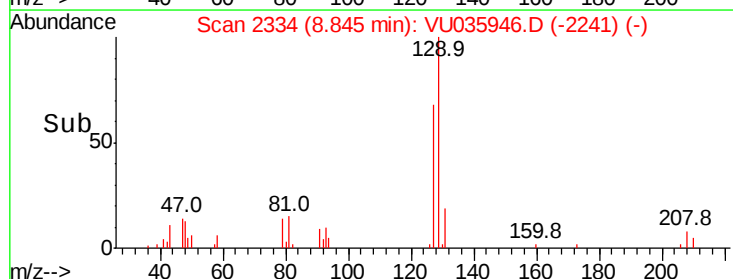
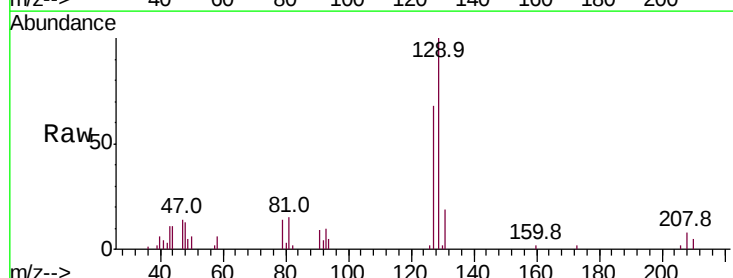
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

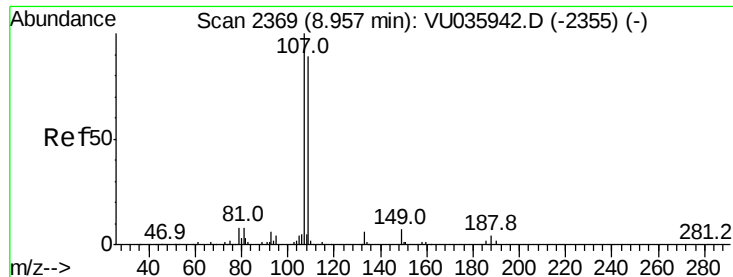
Tot Ion:	43	Resp:	65642
Ion	Ratio	Lower	Upper
43	100		
58	49.0	45.4	68.2
57	18.2	14.9	22.3
100	10.0	8.6	13.0



#49
Dibromochloromethane
Concen: 0.480 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

Tgt Ion:	129	Resp:	13297
Ion	Ratio	Lower	Upper
129	100		
127	67.8	52.8	98.0

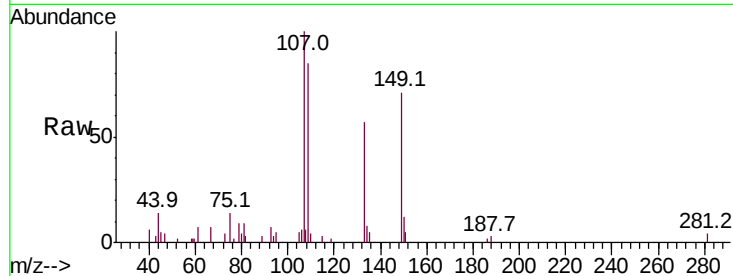




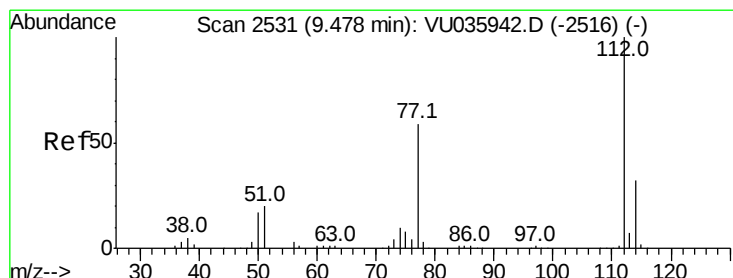
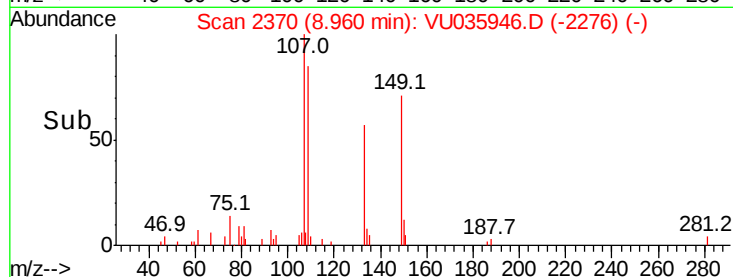
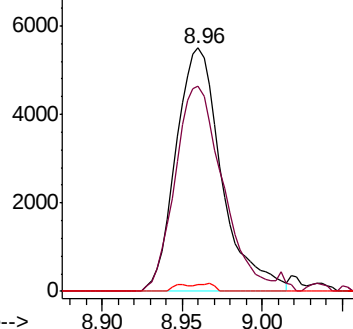
#50
1,2-Dibromoethane
Concen: 0.499 ug/L
RT: 8.96 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

Tot Ion:107 Resp: 10756
Ion Ratio Lower Upper
107 100
109 84.5 62.5 116.1
188 2.6 3.0 4.6#

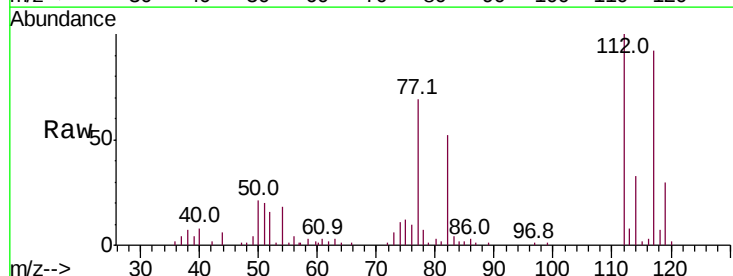


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

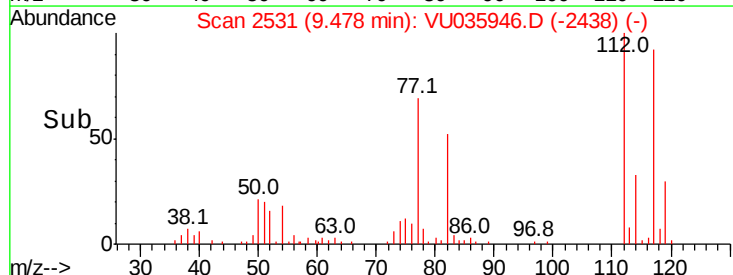
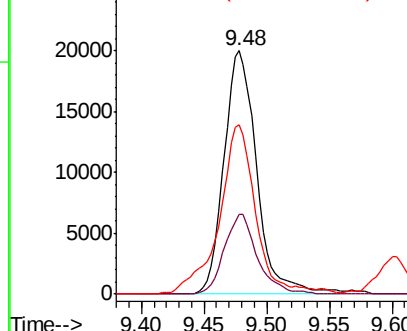


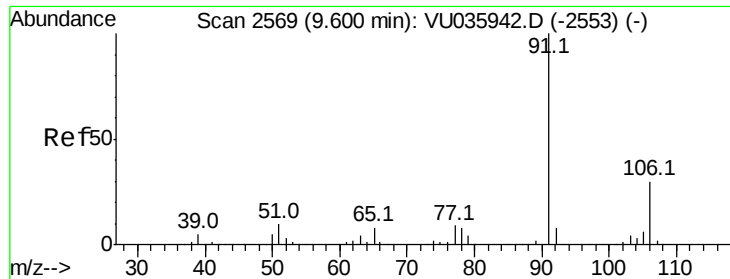
#51
Chlorobenzene
Concen: 0.443 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

Tgt Ion:112 Resp: 36263
Ion Ratio Lower Upper
112 100
114 32.9 22.5 41.7
77 69.4 47.7 71.5



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.397 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

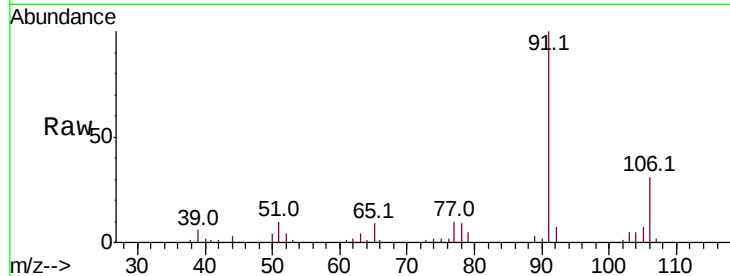
VSTD0.504

Tot Ion: 91 Resp: 52258

Ion Ratio Lower Upper

91 100

106 30.6 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU035946.D (-2553) (-)

Ion 106.15 (105.85 to 106.85): VU035946.D (-2553) (-)

9.60

30000

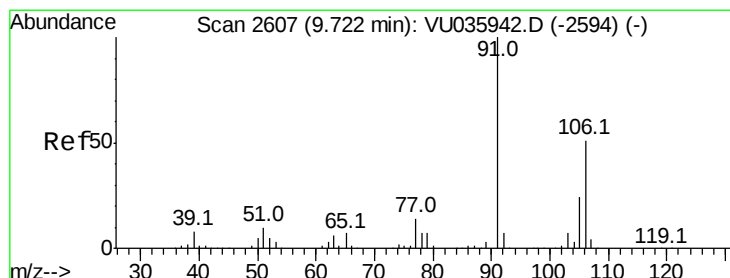
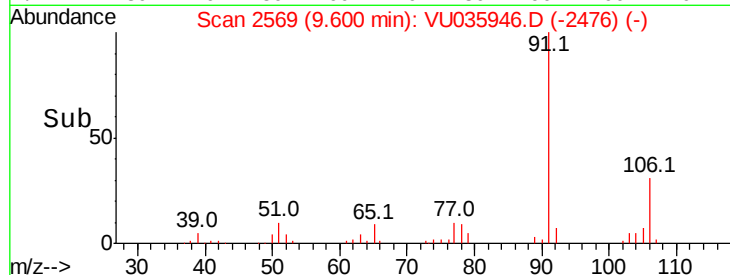
20000

10000

0

9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 0.376 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035946.D

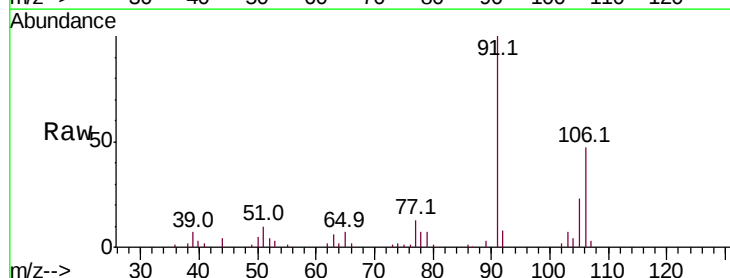
Acq: 03 Dec 2019 13:38

Tgt Ion: 106 Resp: 18791

Ion Ratio Lower Upper

106 100

91 212.5 138.9 257.9



Abundance Ion 106.15 (105.85 to 106.85): VU035946.D (-2594) (-)

Ion 91.15 (90.85 to 91.85): VU035946.D (-2594) (-)

9.72

25000

20000

15000

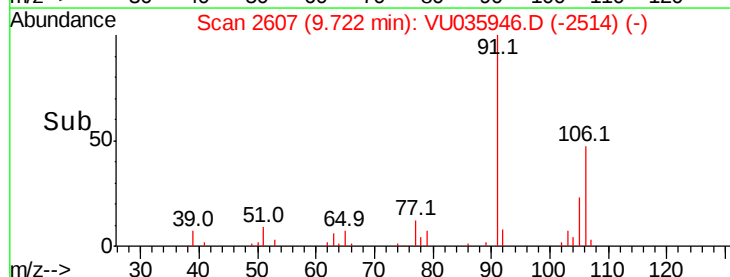
10000

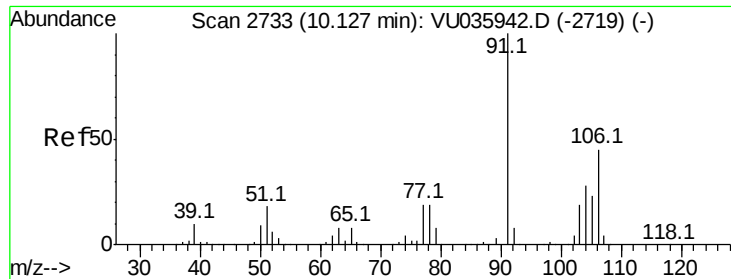
5000

0

9.65 9.70 9.75 9.80

Time-->

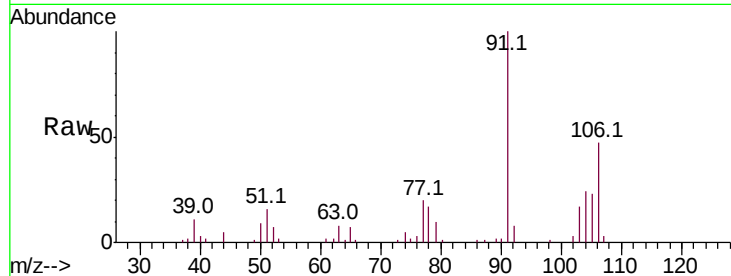




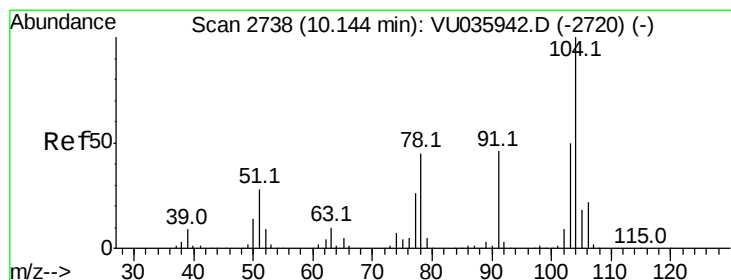
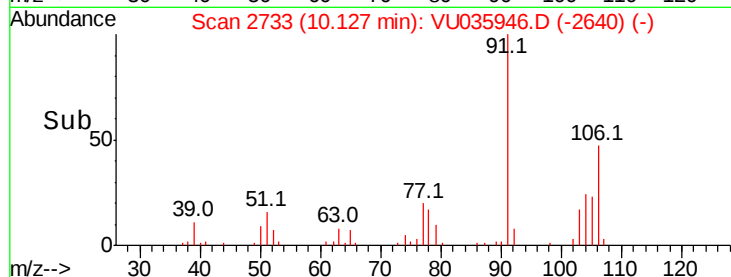
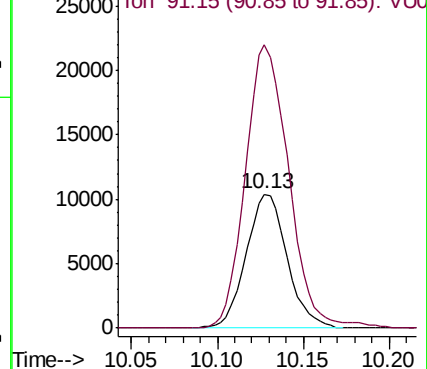
#54
o-Xylene
Concen: 0.358 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

Tot Ion:106 Resp: 17145
Ion Ratio Lower Upper
106 100
91 211.0 155.3 288.3

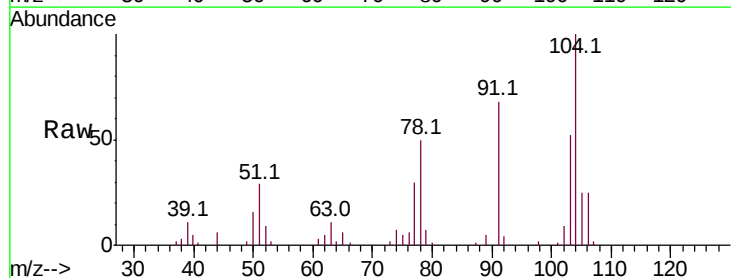


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

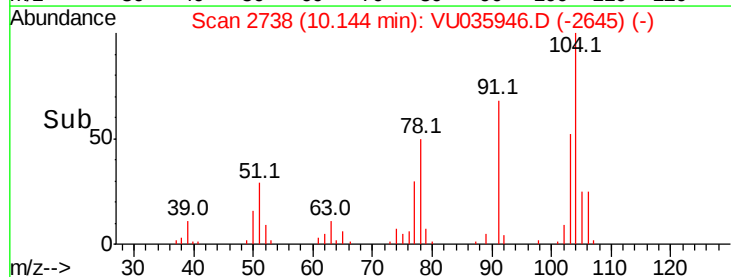
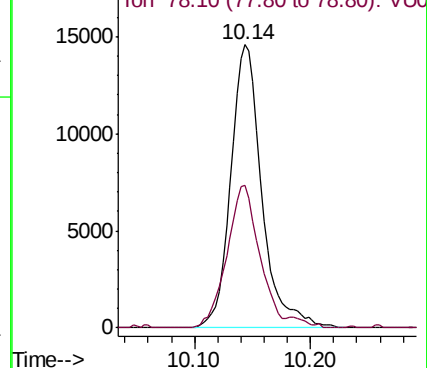


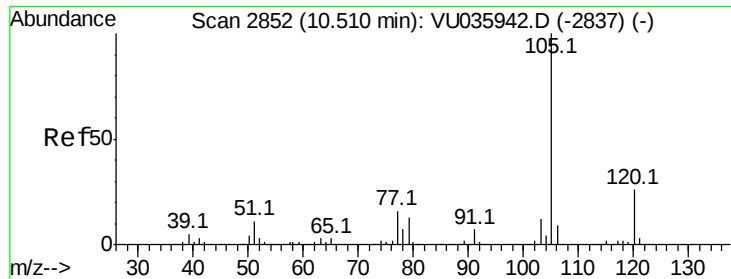
#55
Styrene
Concen: 0.340 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. 0.00 min
Lab File: VU035946.D
Acq: 03 Dec 2019 13:38

Tgt Ion:104 Resp: 27020
Ion Ratio Lower Upper
104 100
78 50.5 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: 0.359 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

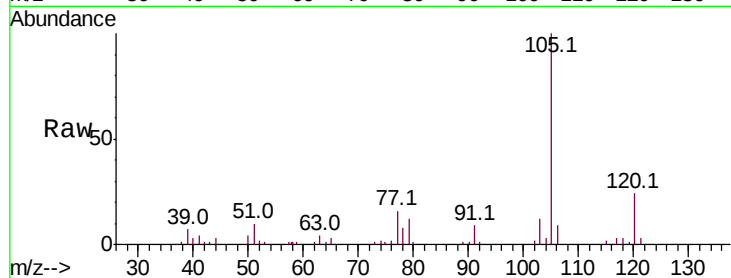
Tot Ion:105 Resp: 45177

Ion Ratio Lower Upper

105 100

120 25.7 21.3 31.9

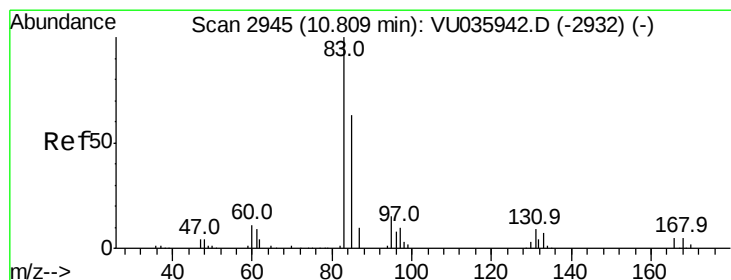
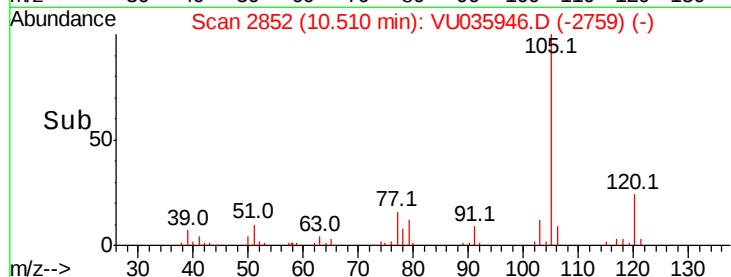
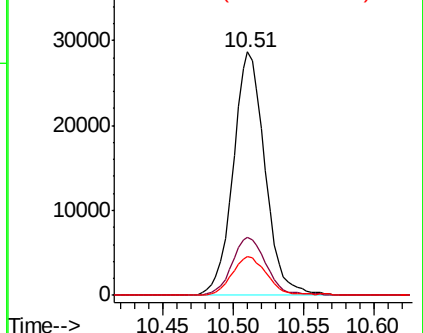
77 17.5 13.1 19.7



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: 0.492 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

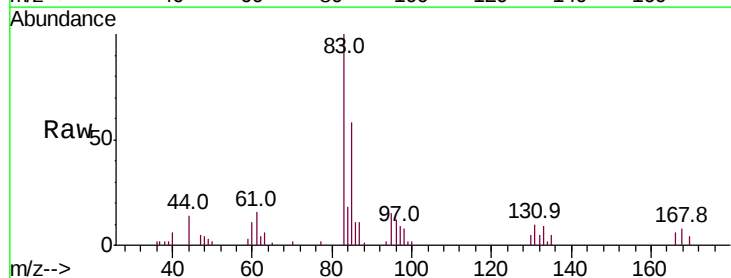
Tgt Ion: 83 Resp: 14606

Ion Ratio Lower Upper

83 100

85 58.4 44.3 82.3

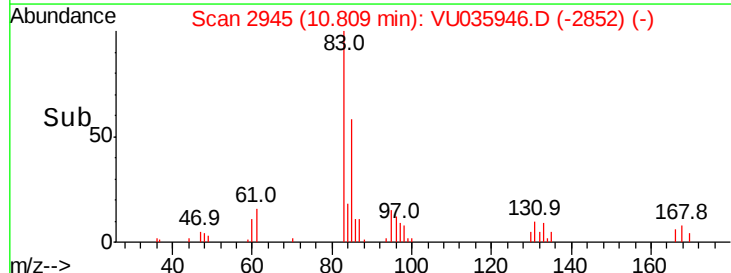
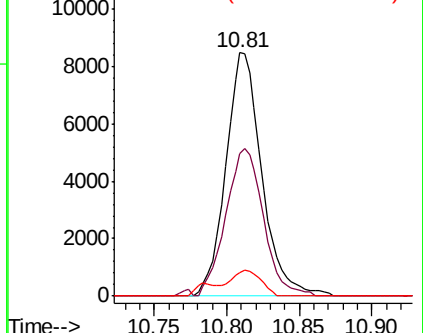
131 9.8 7.2 10.8

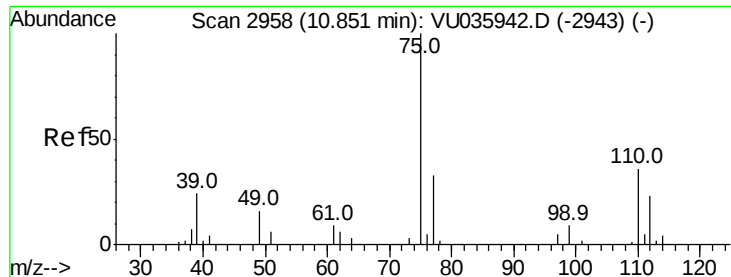


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

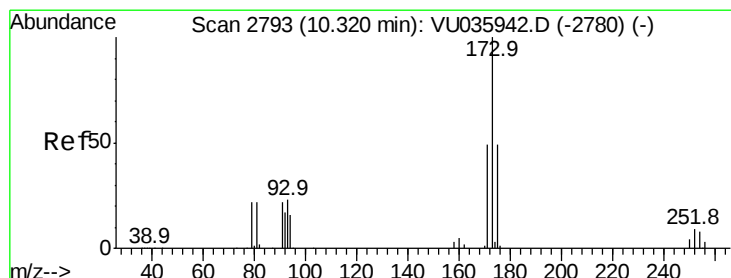
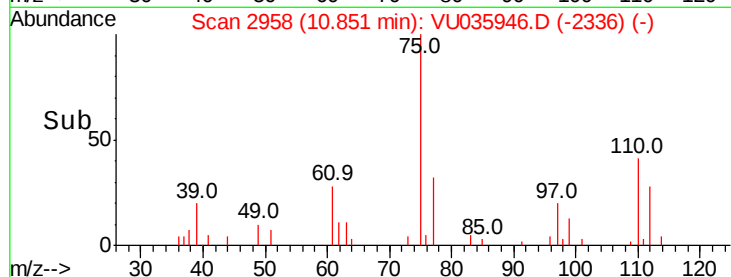
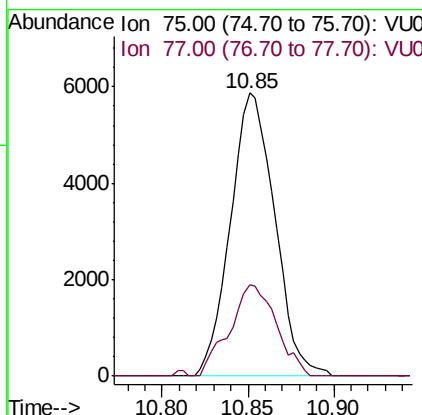
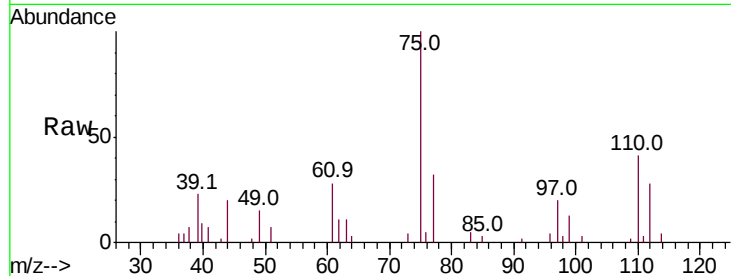




#59
 1,2,3-Trichloropropane
 Concen: 0.502 ug/L
 RT: 10.85 min Scan# 2958
 Delta R.T. 0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

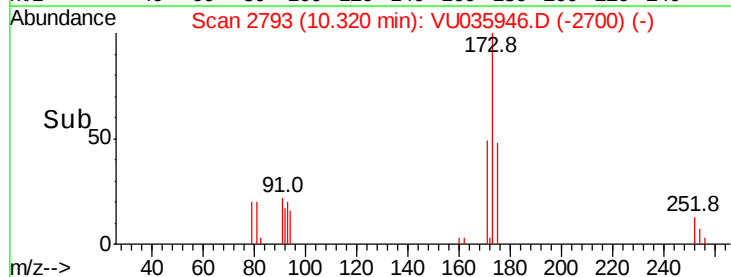
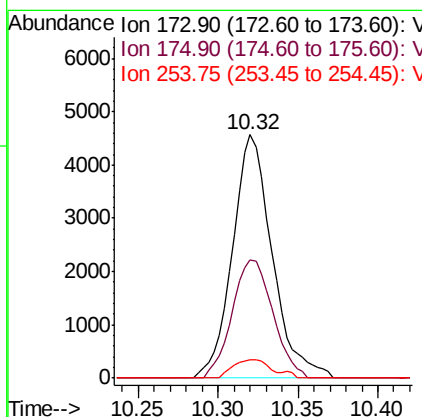
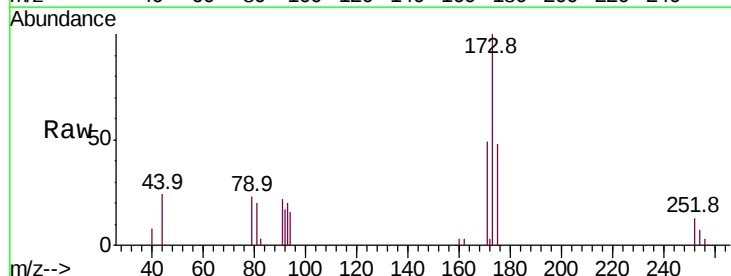
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

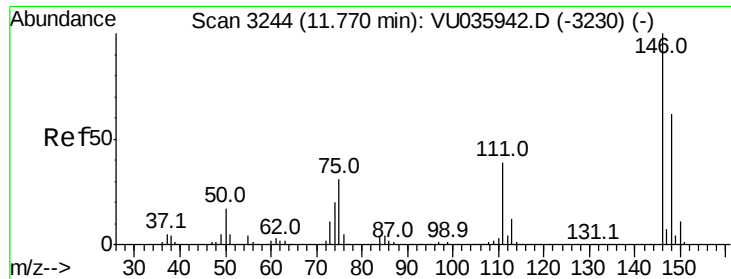
Tot Ion: 75 Resp: 10516
 Ion Ratio Lower Upper
 75 100
 77 34.1 26.6 39.8



#61
 Bromoform
 Concen: 0.629 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

Tgt Ion: 173 Resp: 7709
 Ion Ratio Lower Upper
 173 100
 175 49.8 39.3 58.9
 254 7.4 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 0.537 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

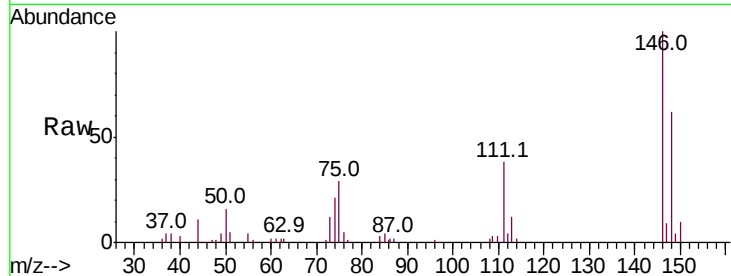
Tot Ion:146 Resp: 24465

Ion Ratio Lower Upper

146 100

111 37.9 27.6 51.4

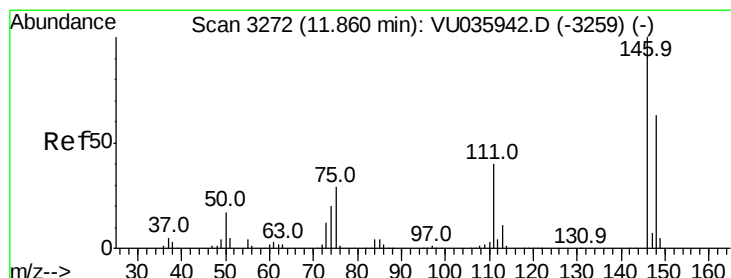
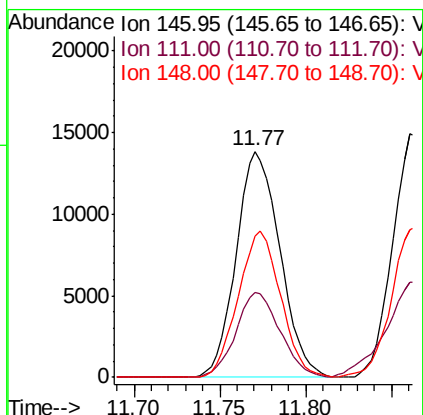
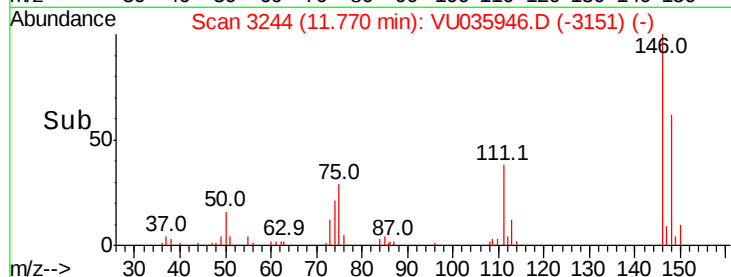
148 62.3 43.4 80.6



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: 0.571 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

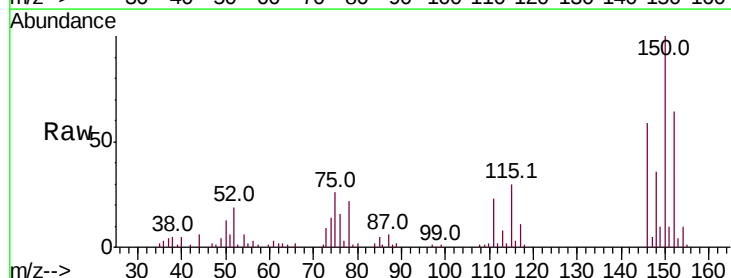
Tgt Ion:146 Resp: 25047

Ion Ratio Lower Upper

146 100

111 39.0 28.5 52.9

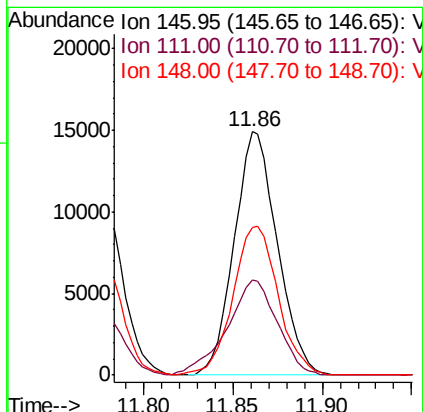
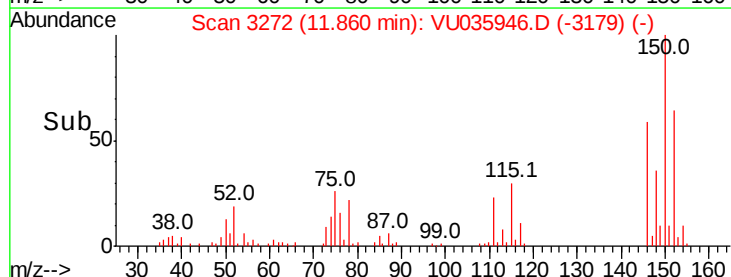
148 60.8 44.4 82.5

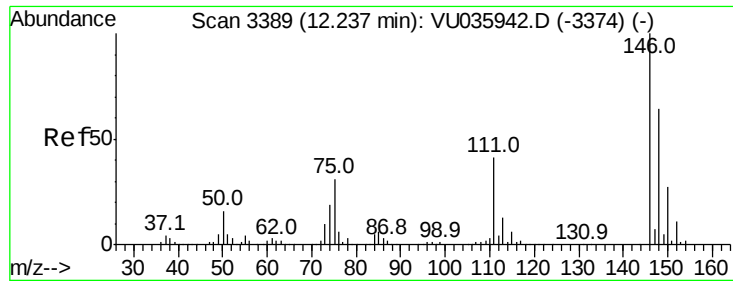


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.540 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

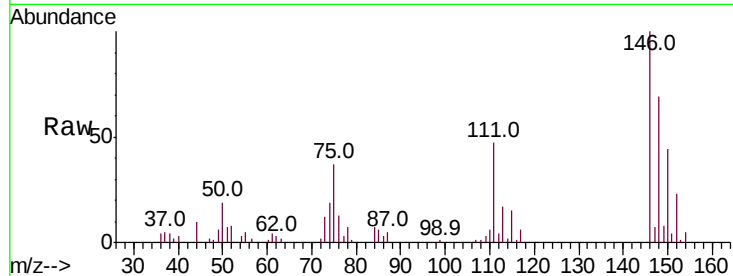
Tot Ion:146 Resp: 23103

Ion Ratio Lower Upper

146 100

111 47.0 32.6 48.8

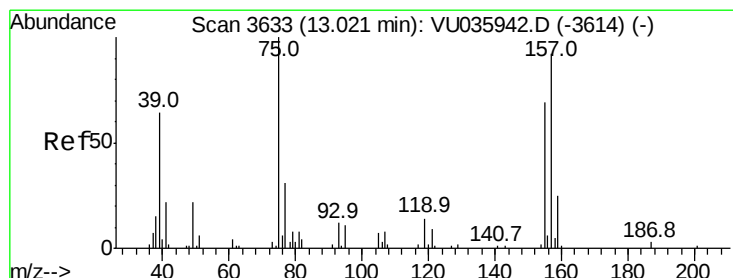
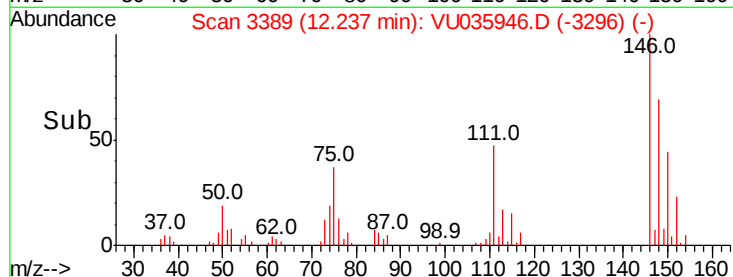
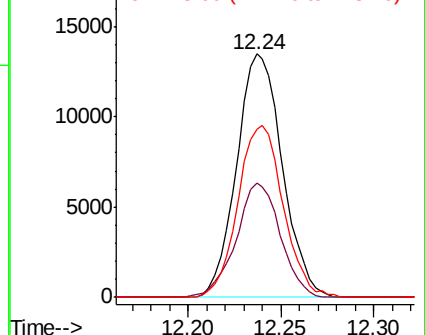
148 69.1 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.731 ug/L

RT: 13.03 min Scan# 3635

Delta R.T. 0.01 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

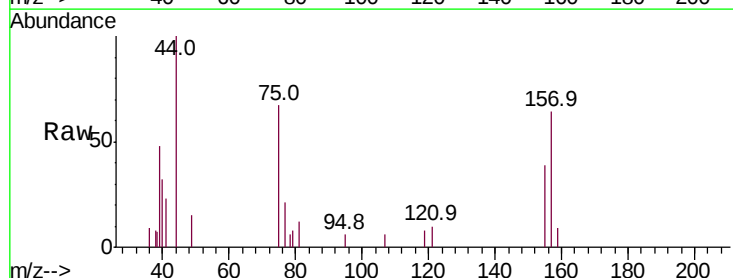
Tgt Ion: 75 Resp: 2049

Ion Ratio Lower Upper

75 100

155 57.2 55.1 82.7

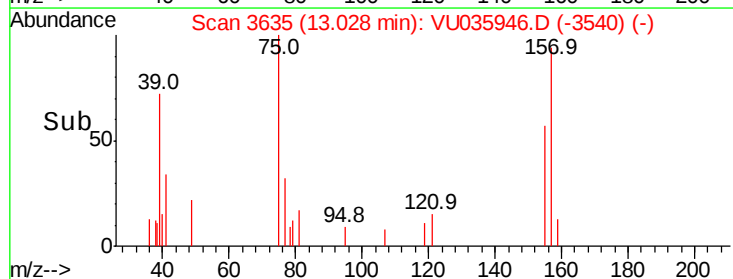
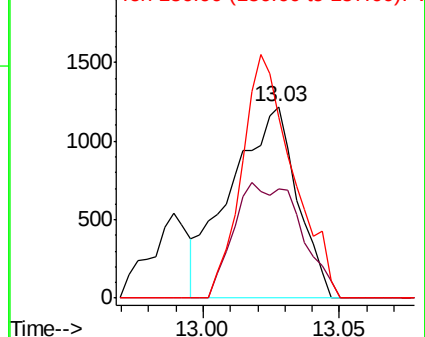
157 94.4 74.0 111.0

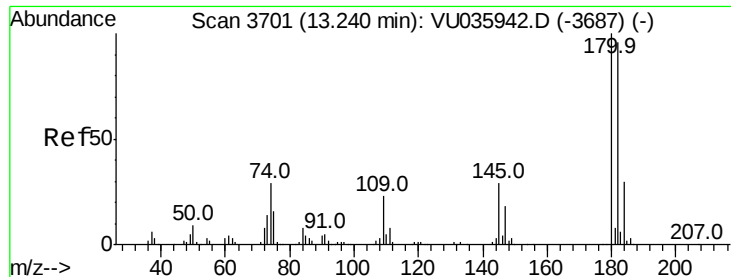


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

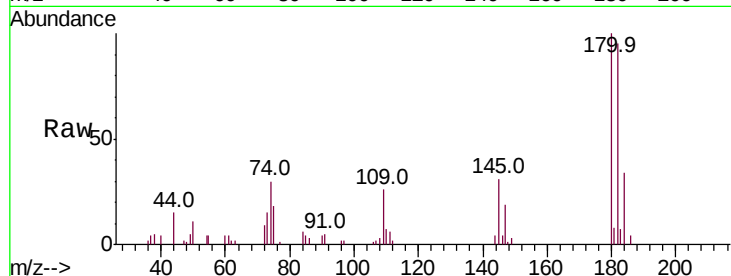




#67
 1,3,5-Trichlorobenzene
 Concen: 0.534 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Tot Ion:	180	Resp:	15662
Ion	Ratio	Lower	Upper
180	100		
182	94.1	77.2	115.8
184	34.1	24.5	36.7
145	30.2	23.0	34.6



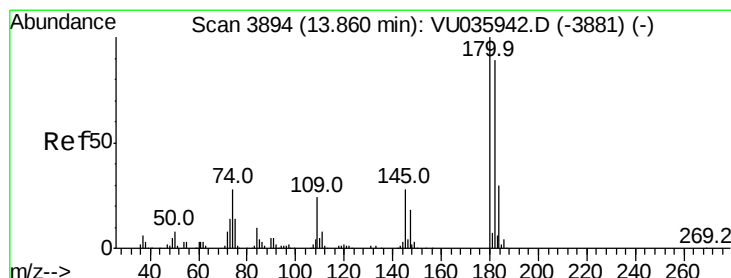
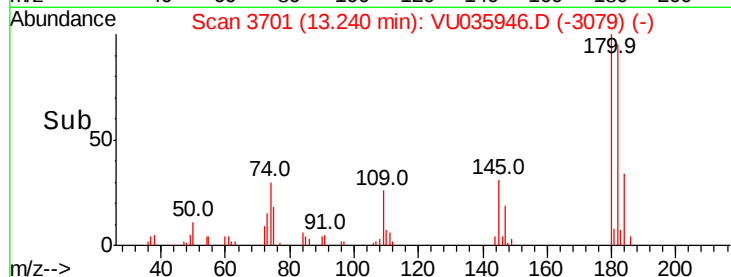
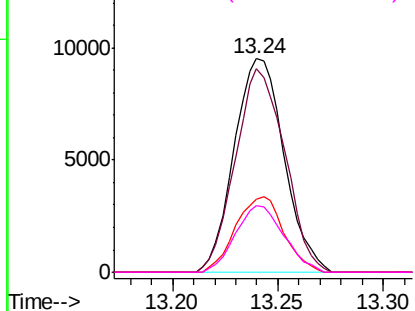
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

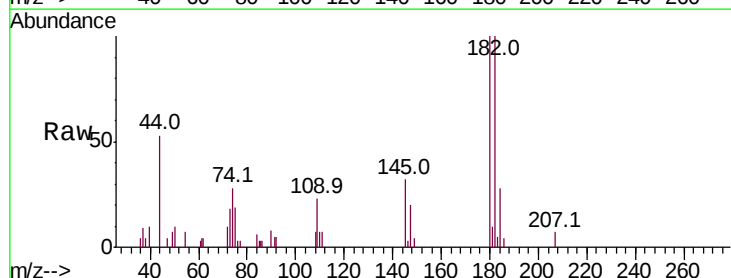
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.363 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU035946.D
 Acq: 03 Dec 2019 13:38

Tgt Ion:	180	Resp:	6384
Ion	Ratio	Lower	Upper
180	100		
182	90.2	74.5	111.7
145	32.9	23.4	35.0

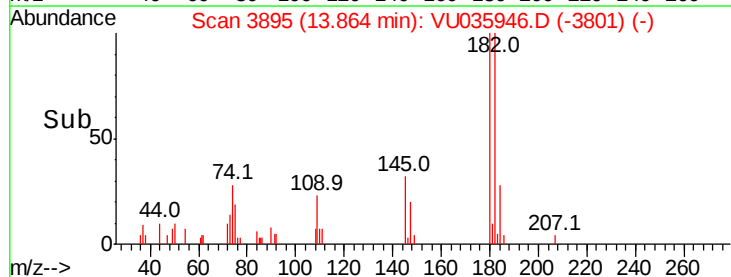
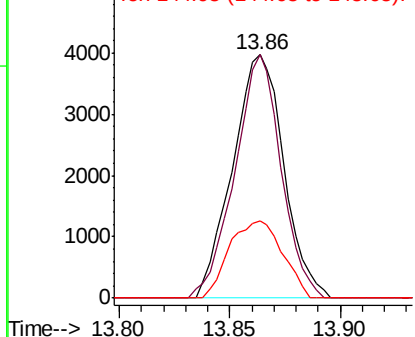


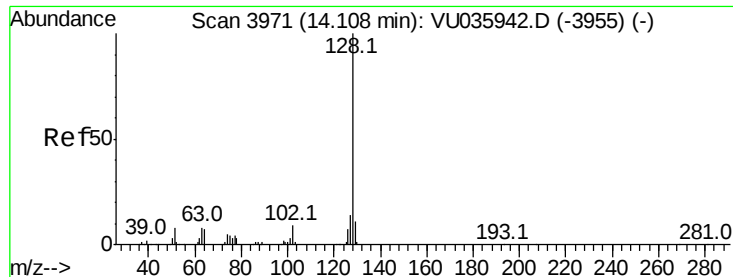
Abundance

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: 0.320 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

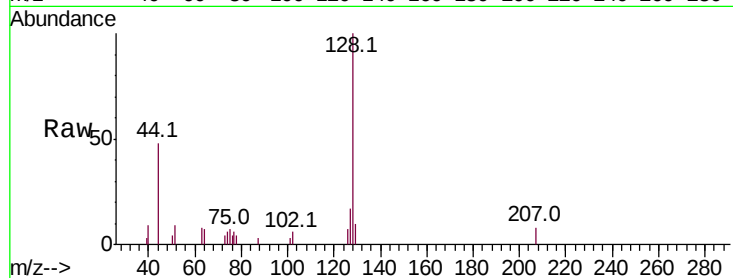
Tot Ion:128 Resp: 6773

Ion Ratio Lower Upper

128 100

129 9.6 8.4 12.6

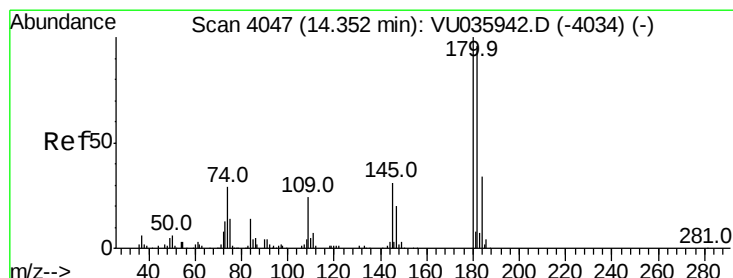
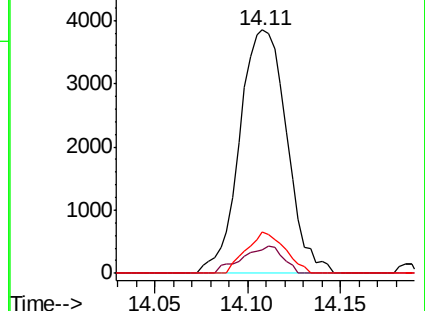
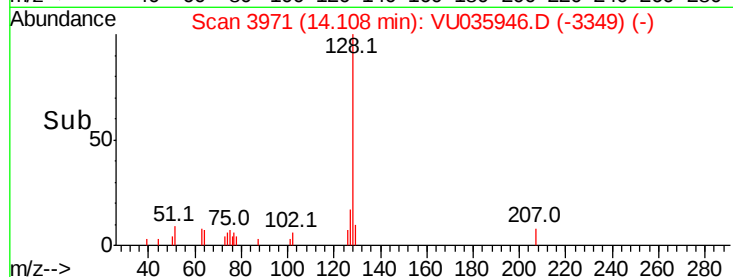
127 14.0 10.6 15.8



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: 0.423 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. -0.00 min

Lab File: VU035946.D

Acq: 03 Dec 2019 13:38

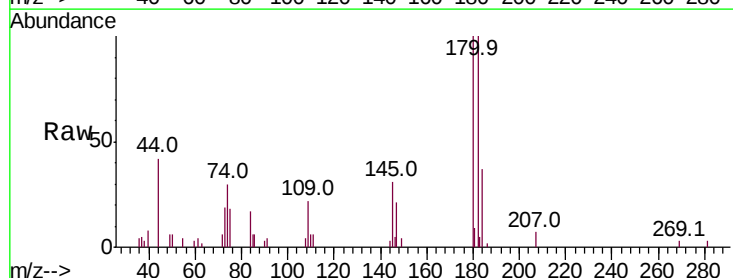
Tgt Ion:180 Resp: 7172

Ion Ratio Lower Upper

180 100

182 91.5 74.6 112.0

145 30.4 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

