

Data File : VU033538.D
Acq On : 01 Aug 2019 10:08
Operator : JC/SP
Sample : MDL01
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Quant Time: Aug 02 01:52:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	281110	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	282838	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	139619	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	100914	49.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.74%
7) Chloroethane-d5	1.67	69	92369	52.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.34%
11) 1,1-Dichloroethene-d2	2.26	63	143705	38.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.48%
21) 2-Butanone-d5	4.15	46	165864	122.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.53%
24) Chloroform-d	4.62	84	189608	55.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.68%
26) 1,2-Dichloroethane-d4	5.29	65	125825	57.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.98%
32) Benzene-d6	5.32	84	380647	54.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.58%
36) 1,2-Dichloropropane-d6	6.31	67	123730	56.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	112.58%
41) Toluene-d8	7.55	98	345100	52.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.04%
43) trans-1,3-Dichloropropene-	7.83	79	57301	52.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.12%
47) 2-Hexanone-d5	8.30	63	118219	113.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.29%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	187034	55.19	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.38%
64) 1,2-Dichlorobenzene-d4	11.85	152	145070	56.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	113.48%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	7447	2.809 ug/L	95
3) Chloromethane	1.32	50	8126	3.043 ug/L	97
5) Vinyl chloride	1.40	62	8647	3.021 ug/L #	78
6) Bromomethane	1.62	94	5307	2.101 ug/L	89
8) Chloroethane	1.69	64	5181	2.979 ug/L	99
9) Trichlorofluoromethane	1.87	101	10794	2.883 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6649	3.503 ug/L #	83
12) 1,1-Dichloroethene	2.27	96	6217	3.415 ug/L #	1
13) Acetone	2.31	43	9804	7.079 ug/L	99
14) Carbon disulfide	2.46	76	16780	2.939 ug/L	99
15) Methyl Acetate	2.60	43	6471	2.935 ug/L	91
16) Methylene chloride	2.68	84	6689	3.217 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	5631	2.952 ug/L	91
18) Methyl tert-butyl Ether	2.98	73	15978	2.747 ug/L	96
19) 1,1-Dichloroethane	3.43	63	10773	3.009 ug/L	91
20) cis-1,2-Dichloroethene	4.21	96	6397	2.988 ug/L	97
22) 2-Butanone	4.24	43	3501	2.117 ug/L #	7

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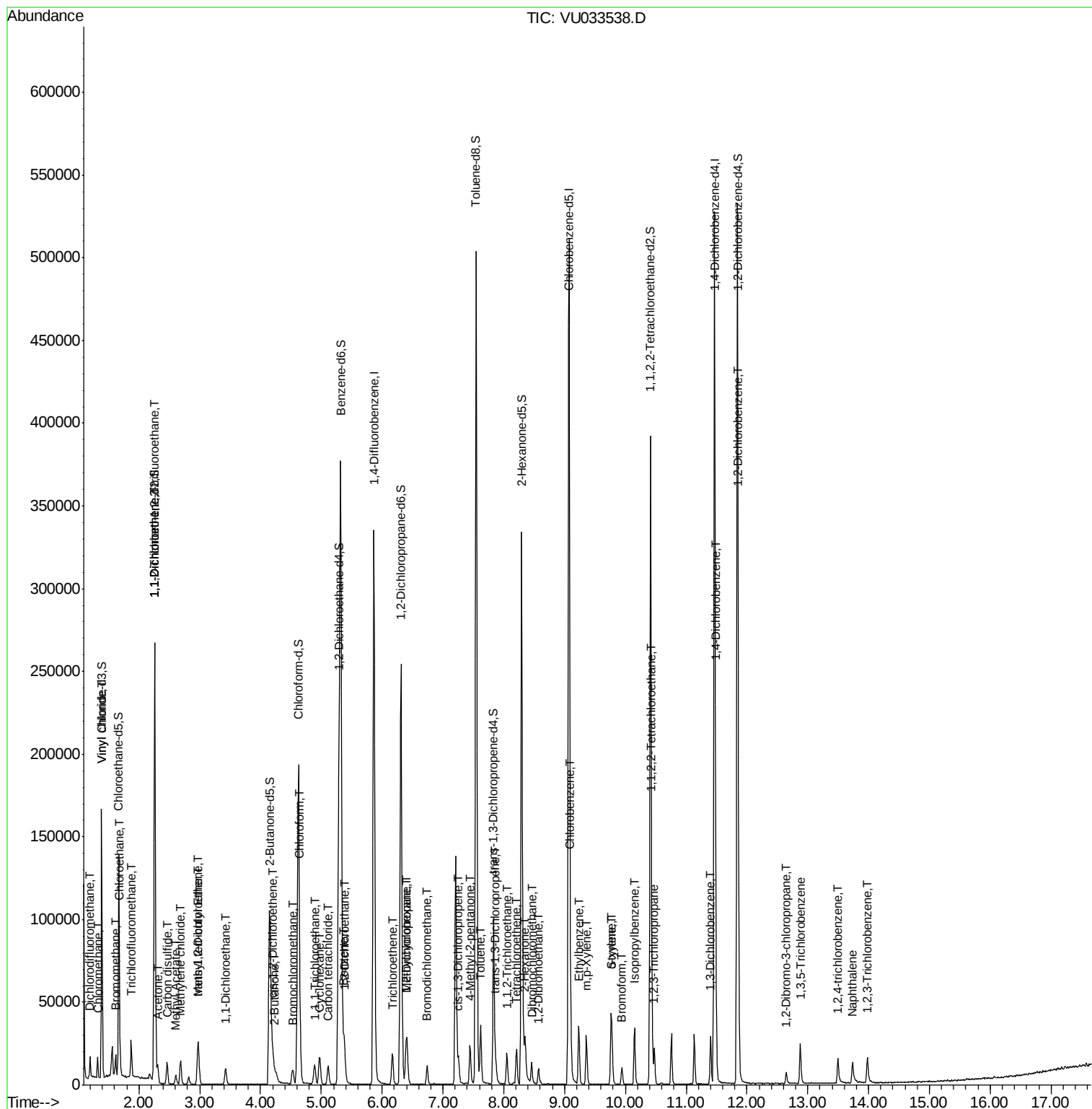
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3167	2.835	ug/L	97
25) Chloroform	4.65	83	14829	3.936	ug/L	93
27) 1,2-Dichloroethane	5.39	62	9236	3.184	ug/L	98
29) Cyclohexane	4.98	56	7784	2.523	ug/L #	94
30) 1,1,1-Trichloroethane	4.89	97	9756	2.998	ug/L	96
31) Carbon tetrachloride	5.12	117	8280	2.922	ug/L	97
33) Benzene	5.37	78	24777	3.037	ug/L	100
34) Trichloroethene	6.17	95	6431	2.988	ug/L	95
35) Methylcyclohexane	6.40	83	8395	2.499	ug/L	99
37) 1,2-Dichloropropane	6.41	63	6518	2.984	ug/L	99
38) Bromodichloromethane	6.74	83	8313	2.944	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	9055	2.656	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	16359	5.425	ug/L	98
42) Toluene	7.62	91	25438	2.899	ug/L	97
44) trans-1,3-Dichloropropene	7.86	75	10628	3.450	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	5912	2.851	ug/L	95
46) Tetrachloroethene	8.21	164	4834	2.751	ug/L	92
48) 2-Hexanone	8.35	43	15327	6.288	ug/L	97
49) Dibromochloromethane	8.46	129	6761	2.866	ug/L	97
50) 1,2-Dibromoethane	8.57	107	6310	2.747	ug/L #	87
51) Chlorobenzene	9.10	112	16453	2.864	ug/L	94
52) Ethylbenzene	9.23	91	24764	2.621	ug/L	98
53) m,p-Xylene	9.36	106	8858	2.442	ug/L	95
54) o-xylene	9.76	106	8689	2.470	ug/L	91
55) Styrene	9.78	104	13616	2.279	ug/L	99
56) Isopropylbenzene	10.15	105	21464	2.335	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.44	83	12017	3.213	ug/L #	97
59) 1,2,3-Trichloropropane	10.48	75	8772	3.043	ug/L	98
61) Bromoform	9.94	173	5018	2.975	ug/L #	96
62) 1,3-Dichlorobenzene	11.40	146	11802	2.752	ug/L	96
63) 1,4-Dichlorobenzene	11.49	146	13274	2.980	ug/L	96
65) 1,2-Dichlorobenzene	11.86	146	13393	3.089	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	2171	2.710	ug/L	92
67) 1,3,5-Trichlorobenzene	12.88	180	9102	2.631	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	6160	2.084	ug/L	95
69) Naphthalene	13.74	128	14034	1.655	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.98	180	6974	2.243	ug/L	98

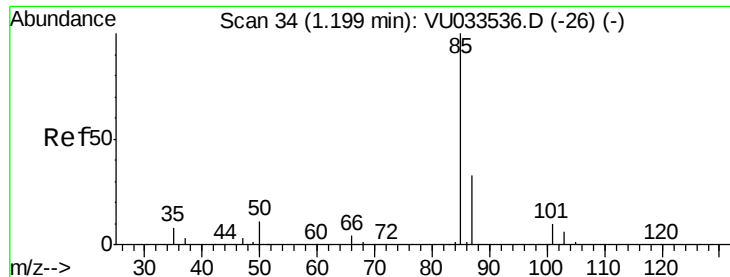
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.809 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

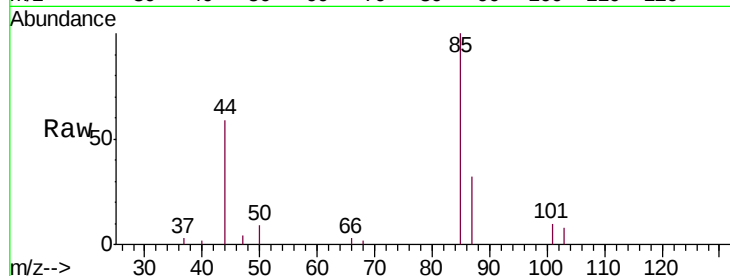
MDL01

Tgt Ion: 85 Resp: 7447

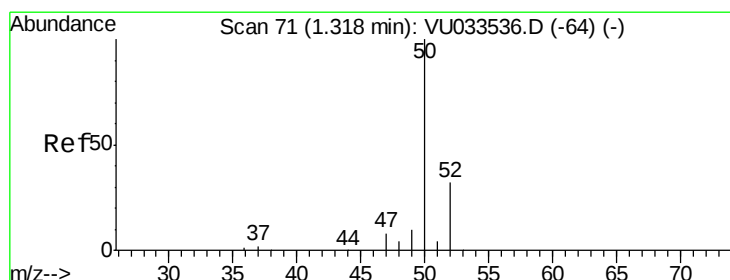
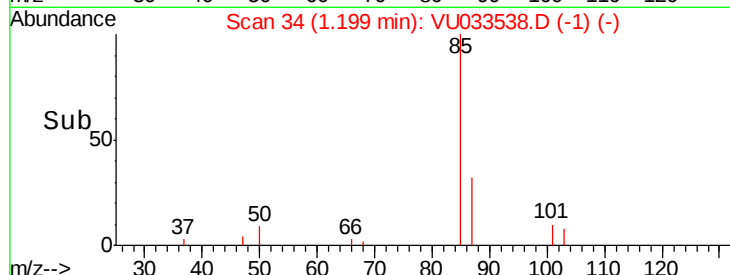
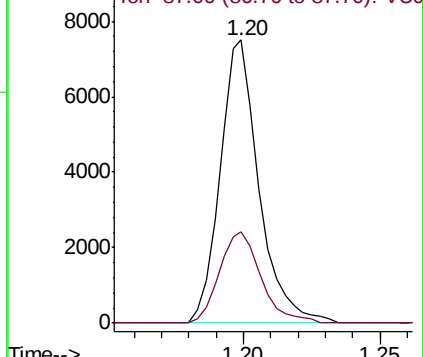
Ion Ratio Lower Upper

85 100

87 34.5 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033538.D (-1) (-)



#3

Chloromethane

Concen: 3.043 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033538.D

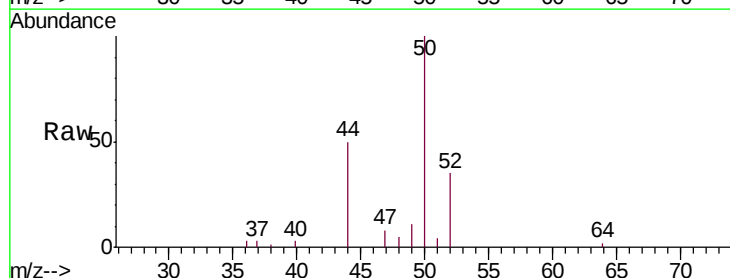
Acq: 01 Aug 2019 10:08

Tgt Ion: 50 Resp: 8126

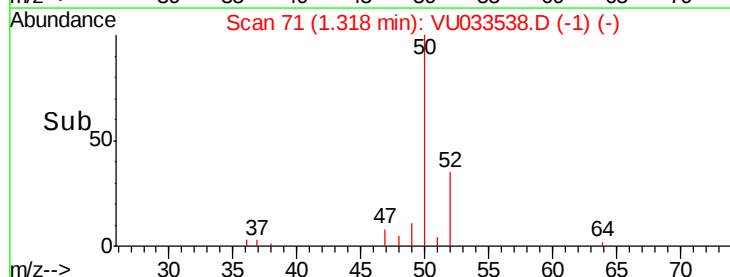
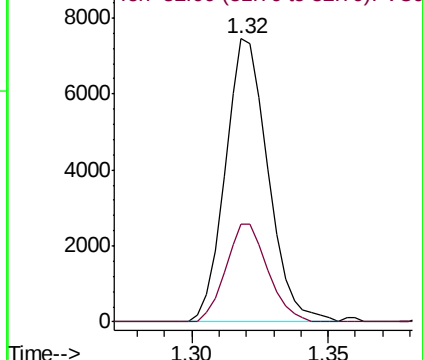
Ion Ratio Lower Upper

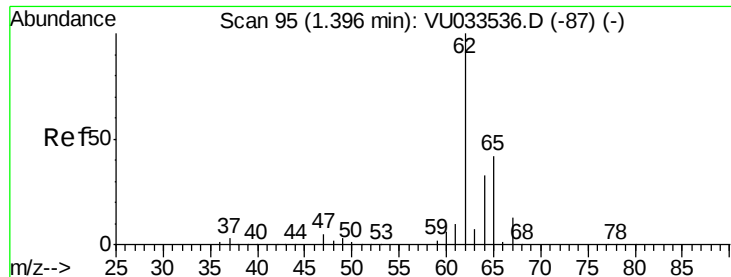
50 100

52 34.7 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033538.D (-1) (-)





#5

Vinyl chloride

Concen: 3.021 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

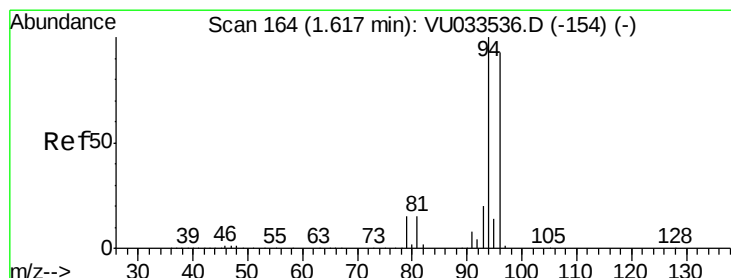
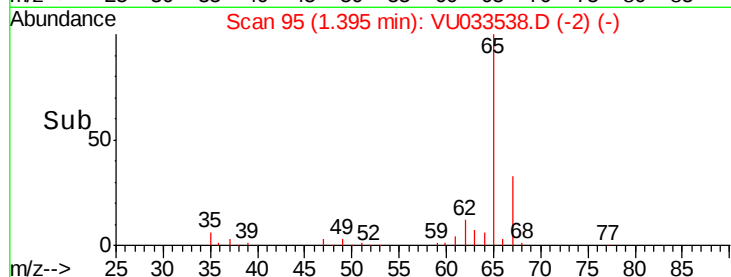
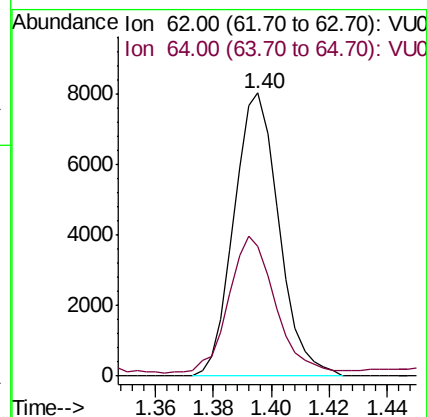
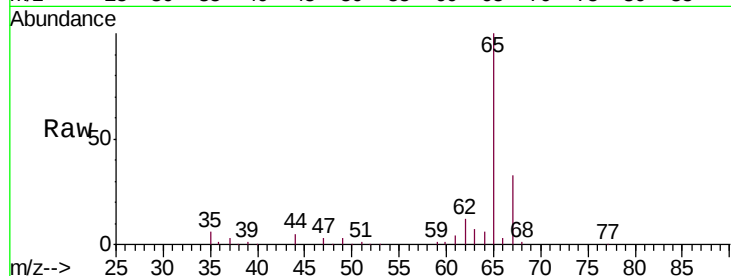
MDL01

Tgt Ion: 62 Resp: 8647

Ion Ratio Lower Upper

62 100

64 46.0 23.4 43.4#



#6

Bromomethane

Concen: 2.101 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033538.D

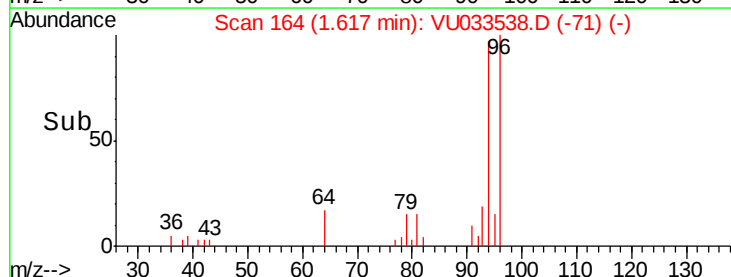
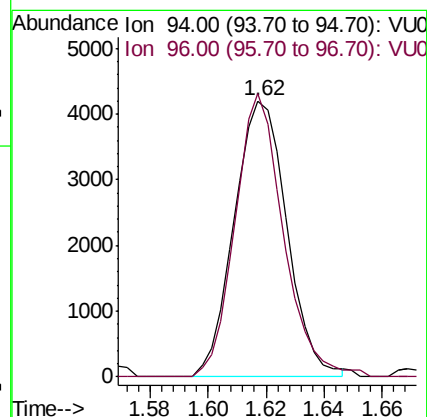
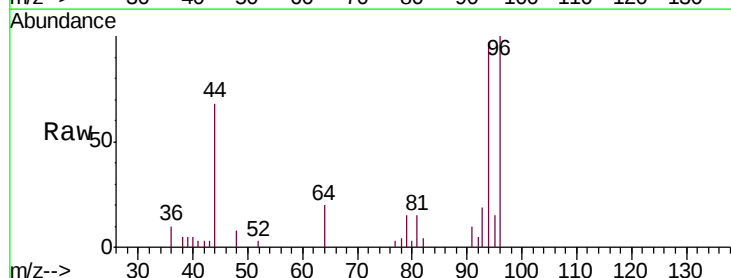
Acq: 01 Aug 2019 10:08

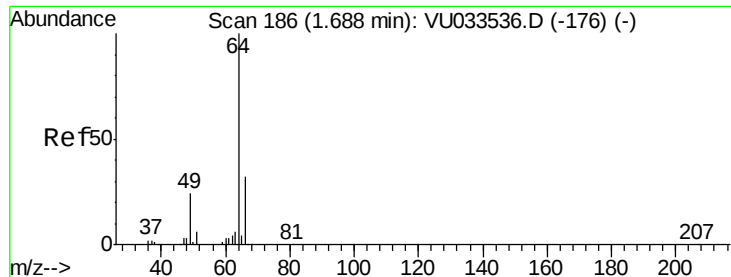
Tgt Ion: 94 Resp: 5307

Ion Ratio Lower Upper

94 100

96 102.6 64.4 119.6





#8

Chloroethane

Concen: 2.979 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

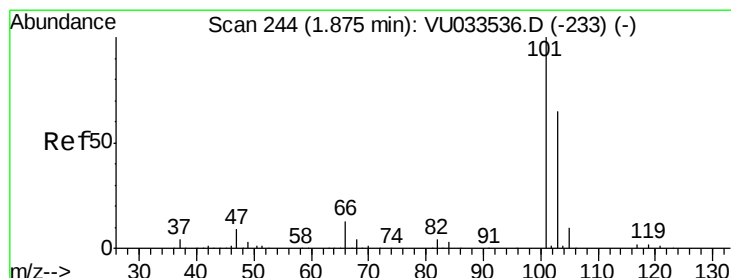
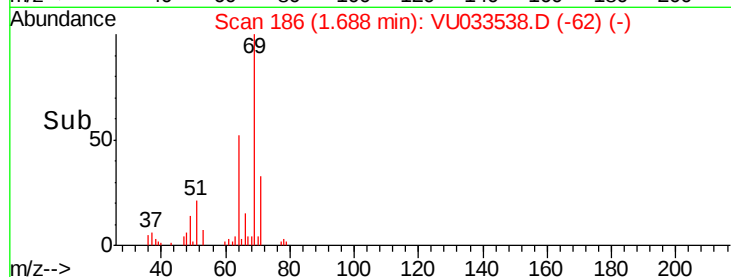
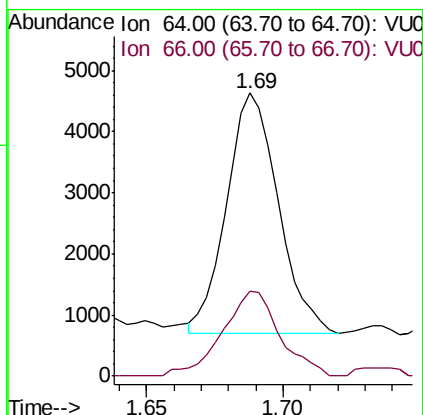
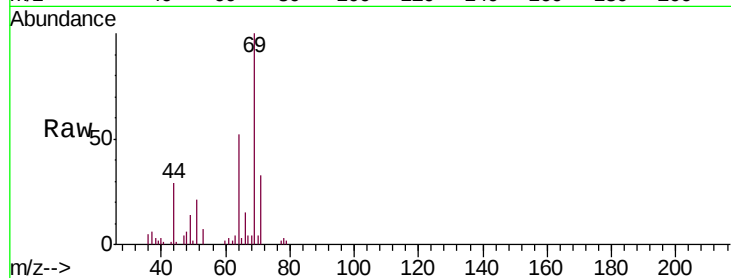
MDL01

Tgt Ion: 64 Resp: 5181

Ion Ratio Lower Upper

64 100

66 29.8 21.1 39.3



#9

Trichlorofluoromethane

Concen: 2.883 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033538.D

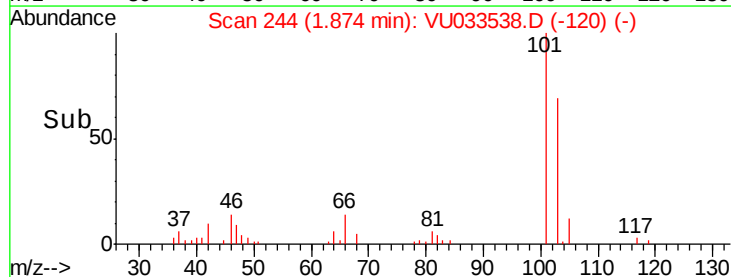
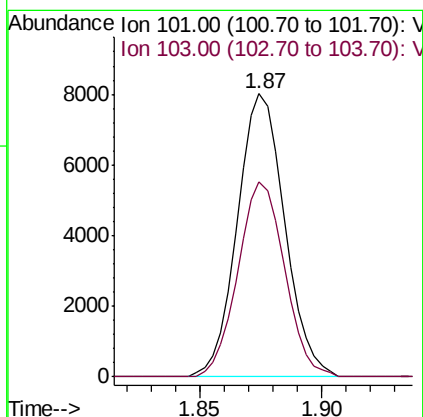
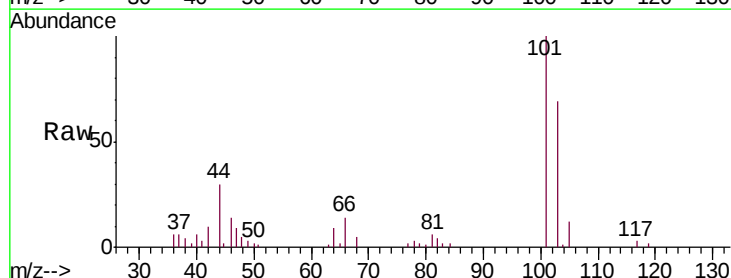
Acq: 01 Aug 2019 10:08

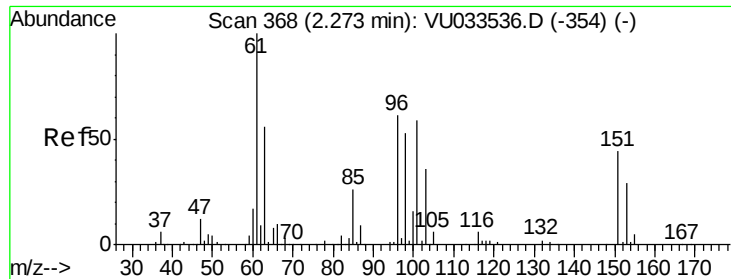
Tgt Ion: 101 Resp: 10794

Ion Ratio Lower Upper

101 100

103 67.9 51.6 77.4





#10

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

Concen: 3.503 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

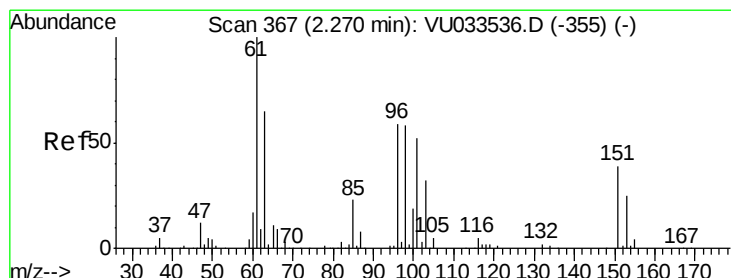
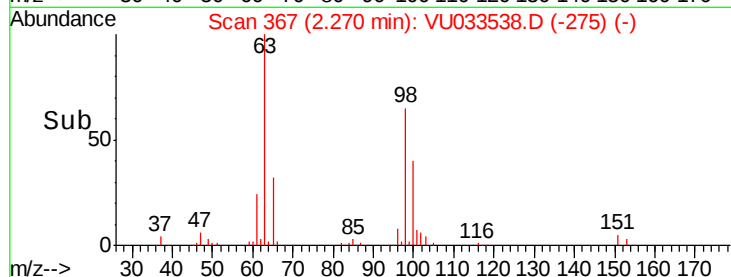
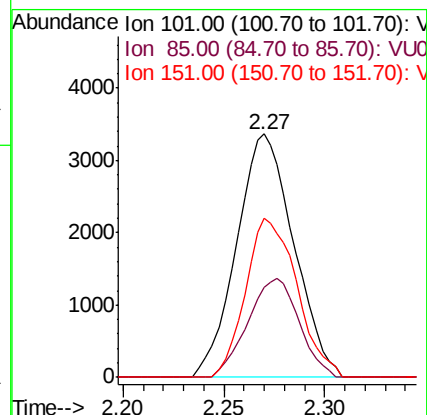
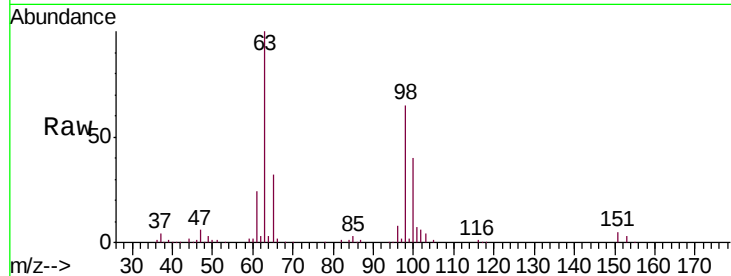
Tgt Ion:101 Resp: 6649

Ion Ratio Lower Upper

101 100

85 36.6 35.8 53.8

151 58.7 60.1 90.1#



#12

1,1-Dichloroethene

Concen: 3.415 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

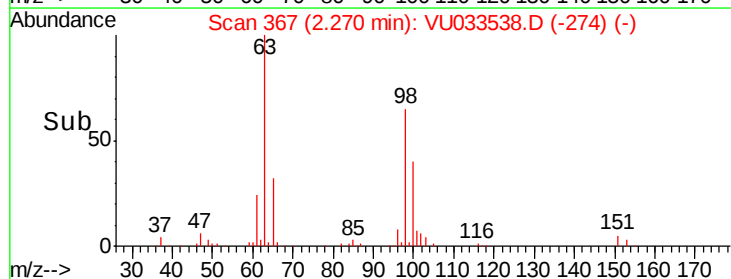
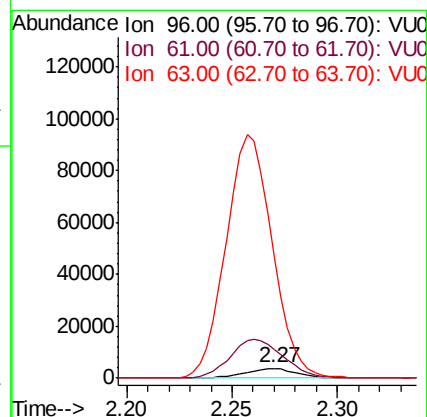
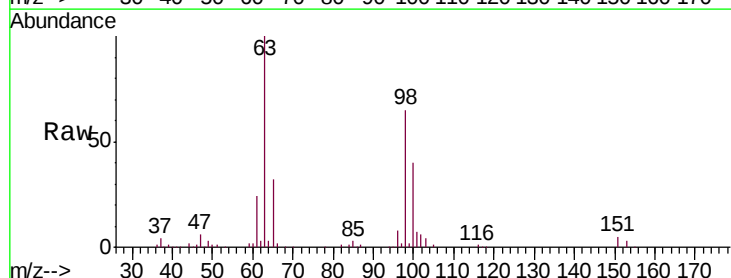
Tgt Ion: 96 Resp: 6217

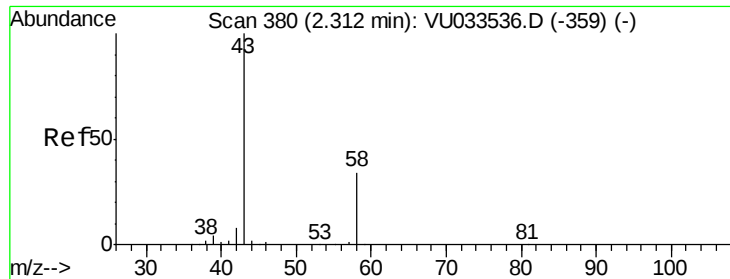
Ion Ratio Lower Upper

96 100

61 292.8 119.3 221.5#

63 1224.9 86.6 160.8#





#13

Acetone

Concen: 7.079 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

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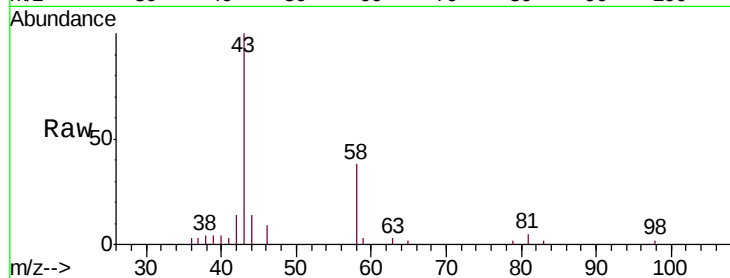
MDL01

Tgt Ion: 43 Resp: 9804

Ion Ratio Lower Upper

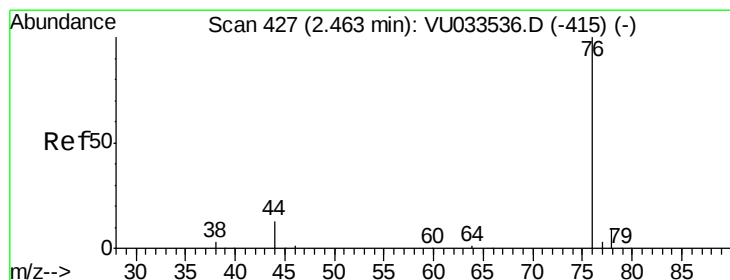
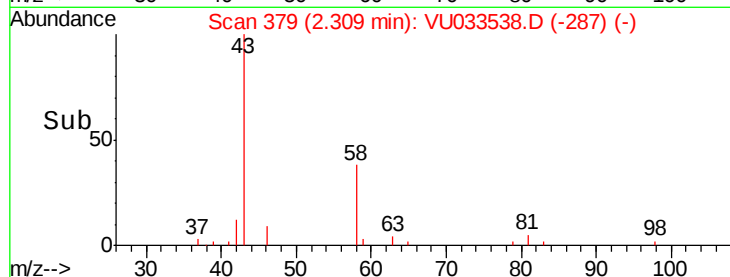
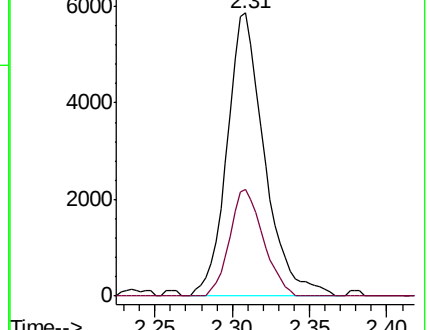
43 100

58 33.8 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU033538.D (-379) (-)

Ion 58.00 (57.70 to 58.70): VU033538.D (-379) (-)



#14

Carbon disulfide

Concen: 2.939 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033538.D

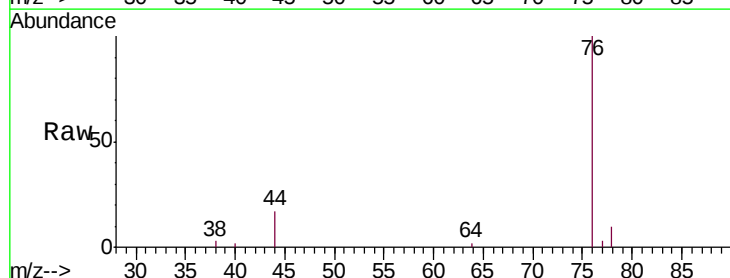
Acq: 01 Aug 2019 10:08

Tgt Ion: 76 Resp: 16780

Ion Ratio Lower Upper

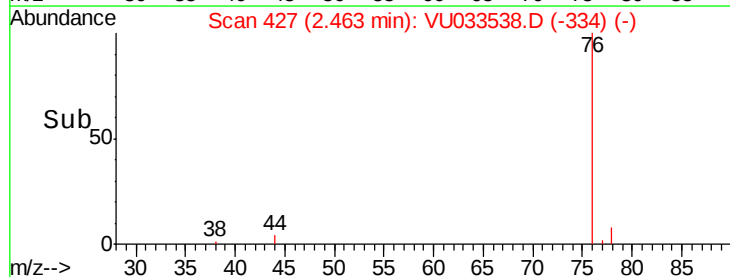
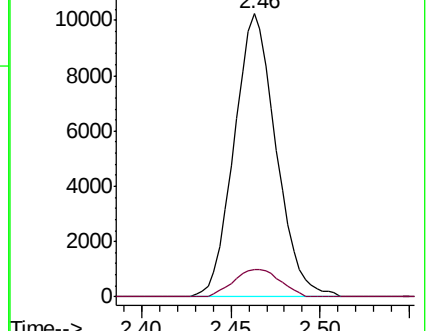
76 100

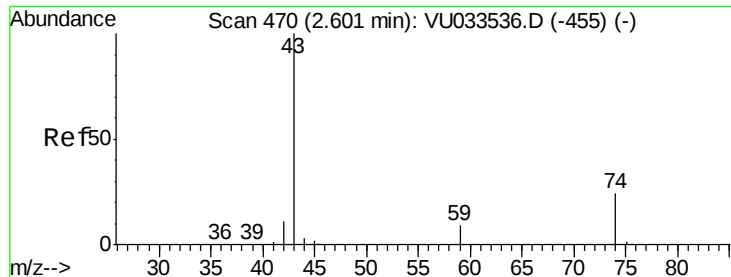
78 9.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033538.D (-427) (-)

Ion 78.00 (77.70 to 78.70): VU033538.D (-427) (-)





#15

Methyl Acetate

Concen: 2.935 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

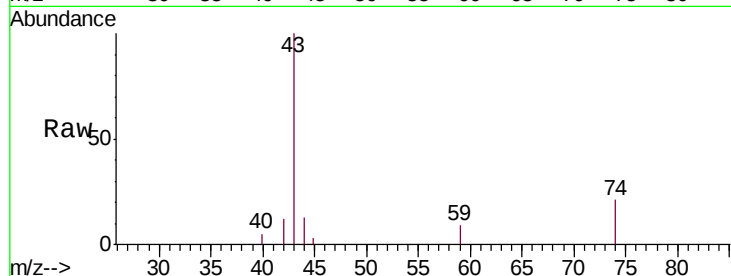
MDL01

Tgt Ion: 43 Resp: 6471

Ion Ratio Lower Upper

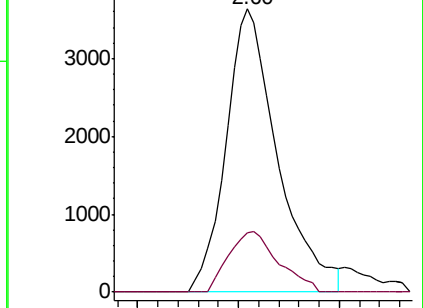
43 100

74 20.7 20.1 30.1

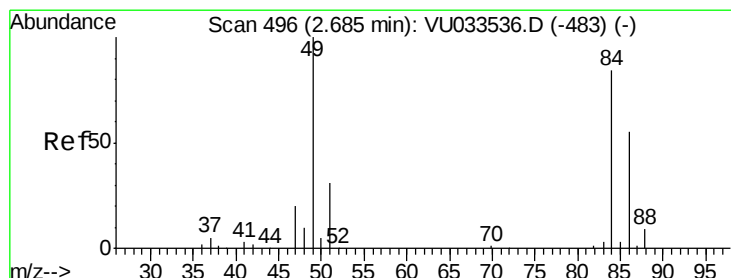
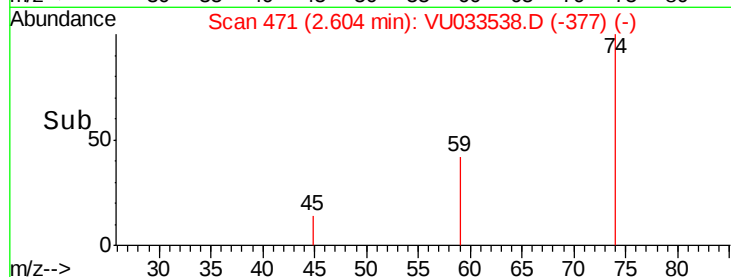


Abundance Ion 43.00 (42.70 to 43.70): VU033538.D (-455) (-)

Ion 74.00 (73.70 to 74.70): VU033538.D (-455) (-)



Time-->



#16

Methylene chloride

Concen: 3.217 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

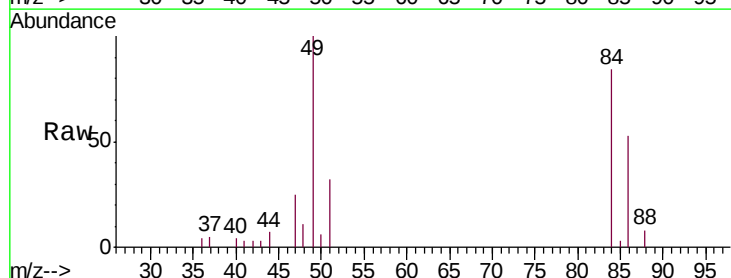
Tgt Ion: 84 Resp: 6689

Ion Ratio Lower Upper

84 100

86 63.9 45.7 84.9

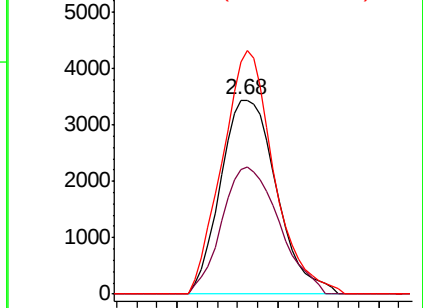
49 119.6 85.0 158.0



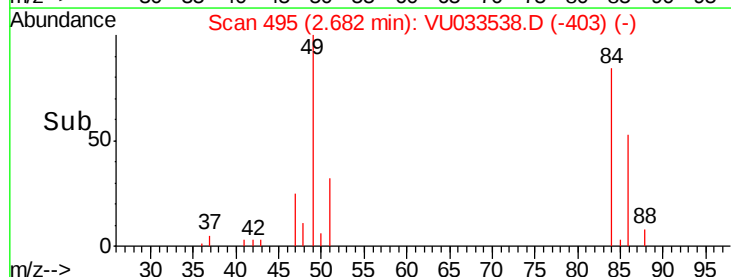
Abundance Ion 84.00 (83.70 to 84.70): VU033538.D (-403) (-)

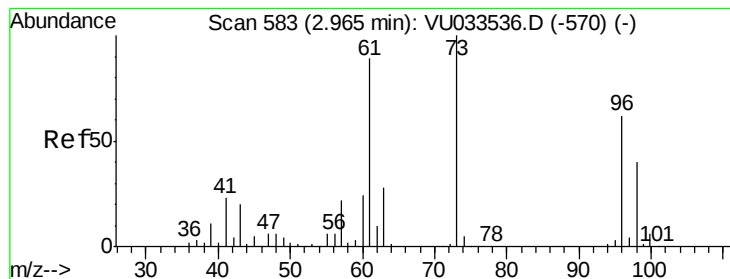
Ion 86.00 (85.70 to 86.70): VU033538.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU033538.D (-403) (-)



Time-->





#17

trans-1,2-Dichloroethene

Concen: 2.952 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

MDL01

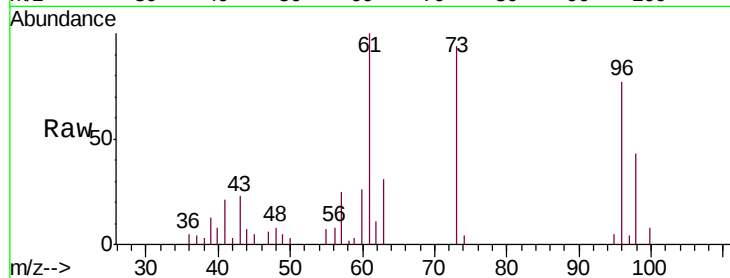
Tgt Ion: 96 Resp: 5631

Ion Ratio Lower Upper

96 100

61 129.8 98.3 182.5

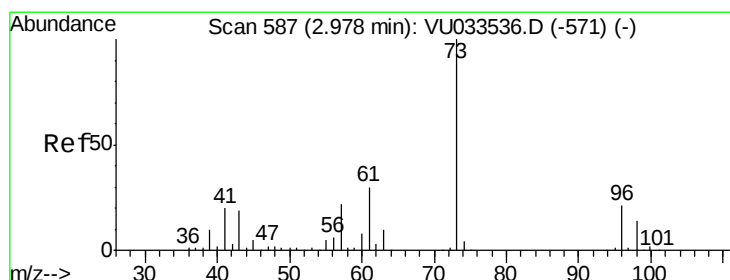
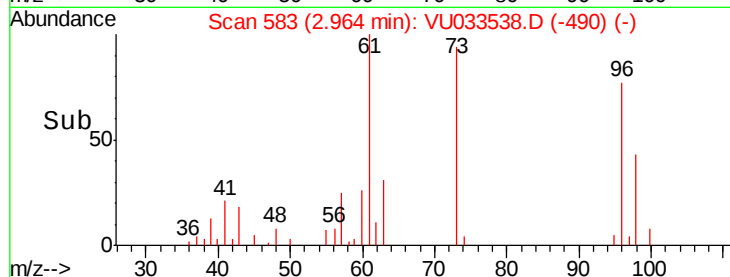
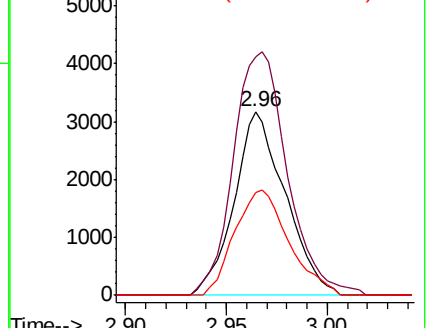
98 56.2 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU033538.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033538.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033538.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 2.747 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

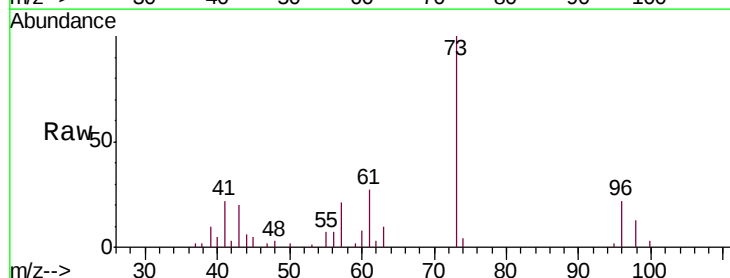
Tgt Ion: 73 Resp: 15978

Ion Ratio Lower Upper

73 100

43 20.6 15.4 23.2

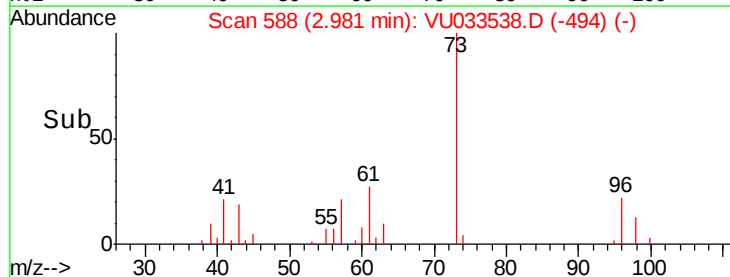
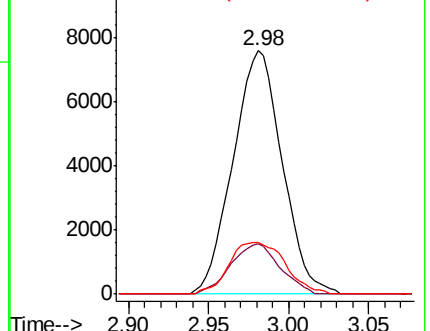
57 24.3 17.4 26.2

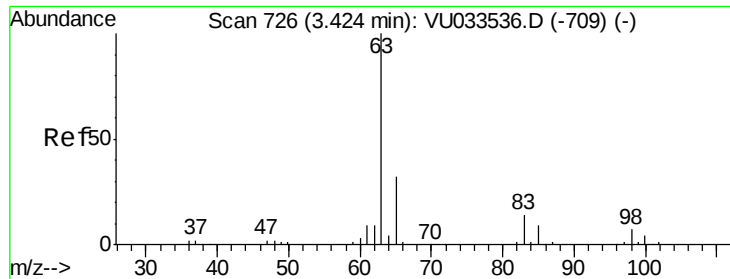


Abundance Ion 73.00 (72.70 to 73.70): VU033538.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033538.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033538.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 3.009 ug/L

RT: 3.43 min Scan# 727

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

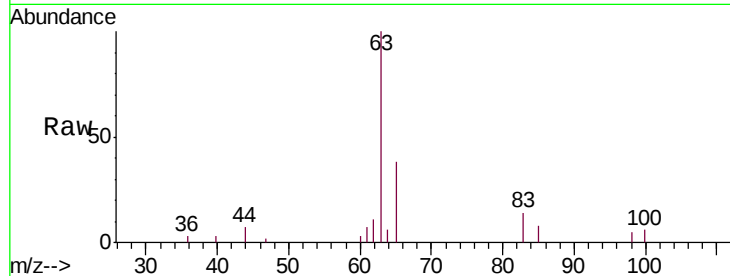
Tgt Ion: 63 Resp: 10773

Ion Ratio Lower Upper

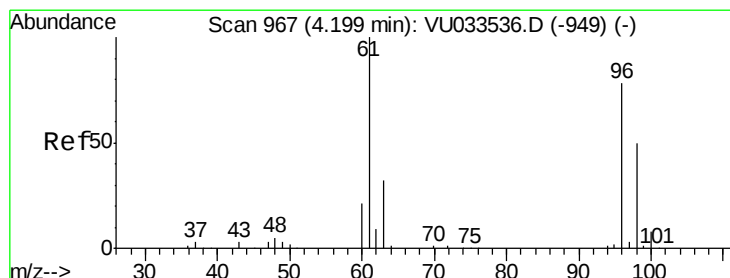
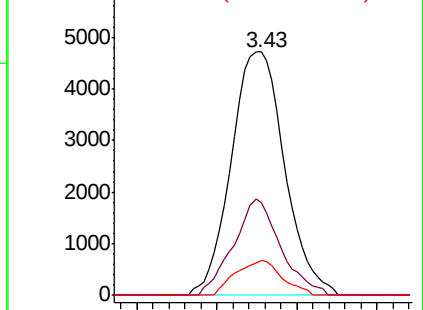
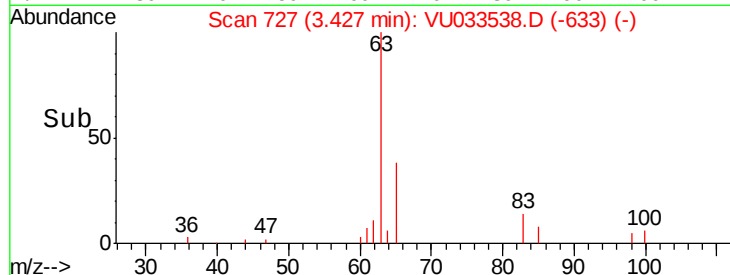
63 100

65 38.1 22.0 40.8

83 14.1 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VU033538.D (-633) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.988 ug/L

RT: 4.21 min Scan# 969

Delta R.T. 0.01 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

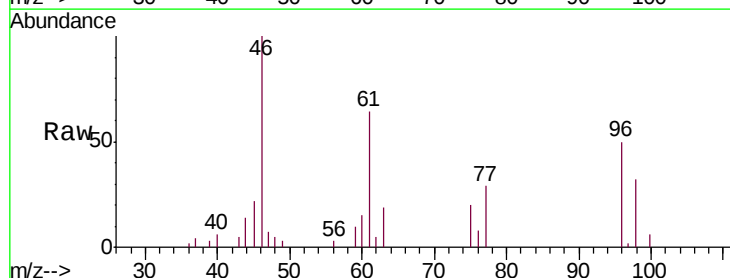
Tgt Ion: 96 Resp: 6397

Ion Ratio Lower Upper

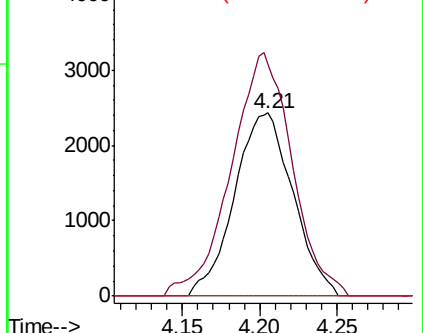
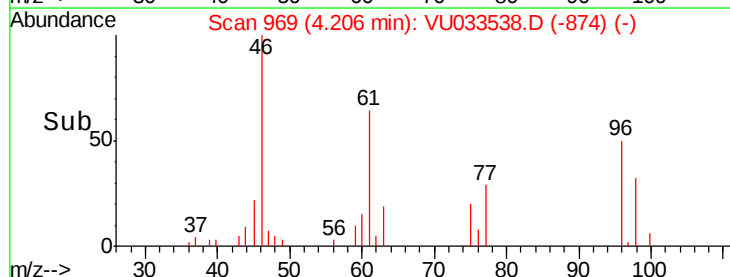
96 100

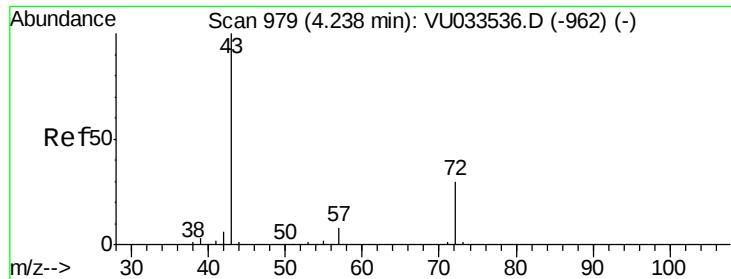
61 126.5 91.3 169.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033538.D (-874) (-)





#22

2-Butanone

Concen: 2.117 ug/L

RT: 4.24 min Scan# 981

Delta R.T. 0.01 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

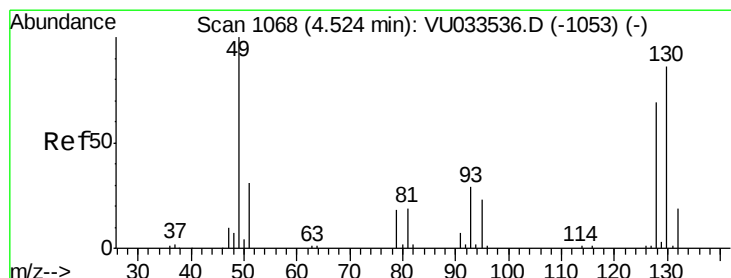
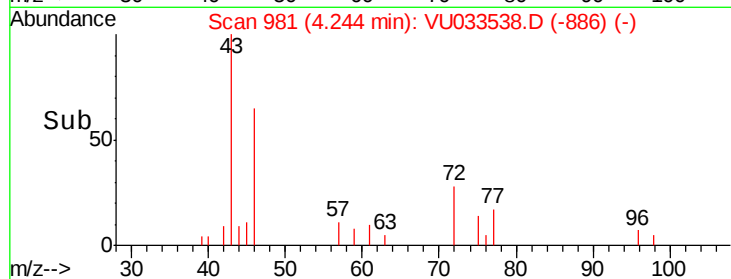
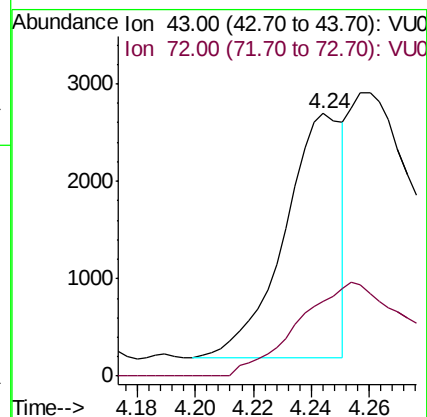
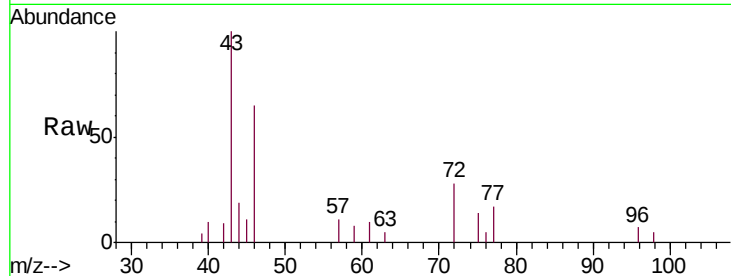
MDL01

Tgt Ion: 43 Resp: 3501

Ion Ratio Lower Upper

43 100

72 77.4 14.2 42.6#



#23

Bromochloromethane

Concen: 2.835 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Tgt Ion: 128 Resp: 3167

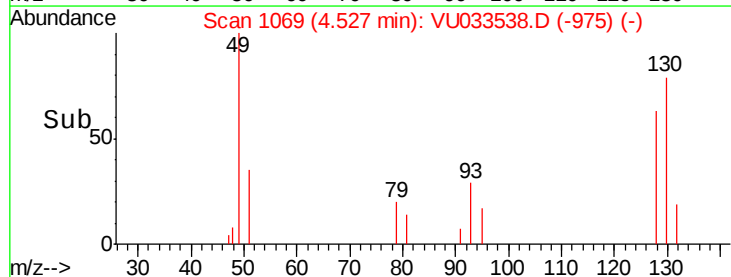
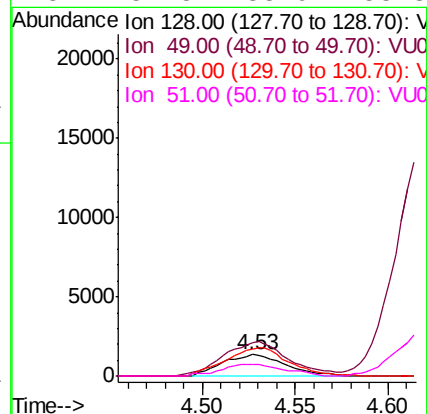
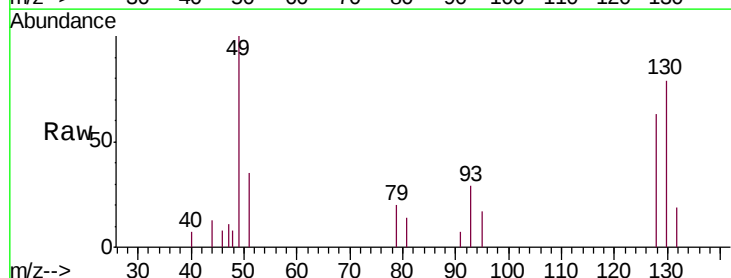
Ion Ratio Lower Upper

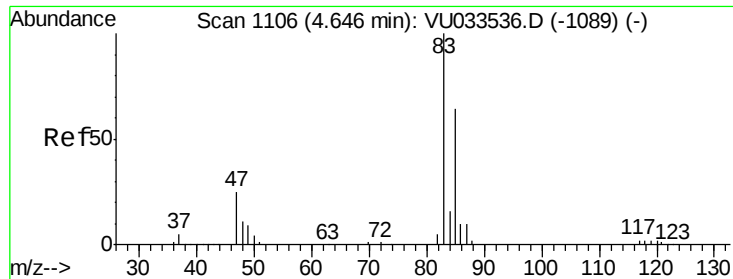
128 100

49 158.1 108.4 201.2

130 125.3 89.7 166.5

51 54.8 38.9 58.3

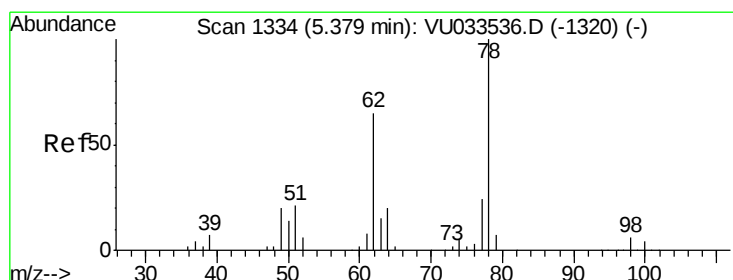
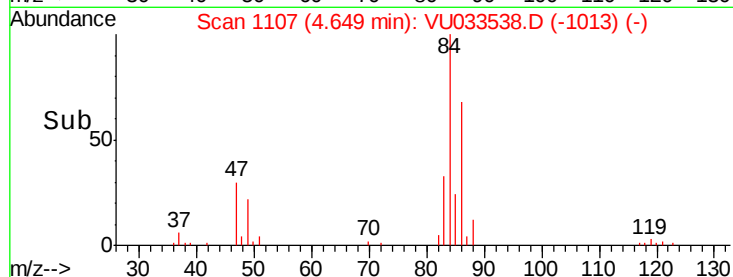
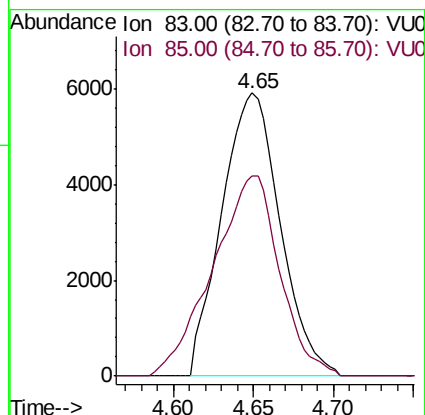
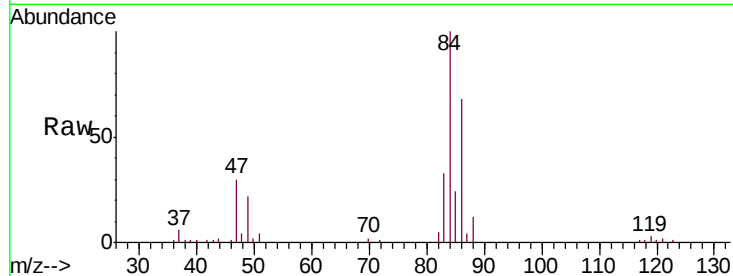




#25
Chloroform
Concen: 3.936 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

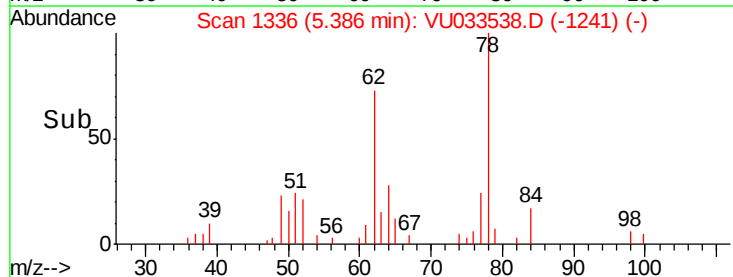
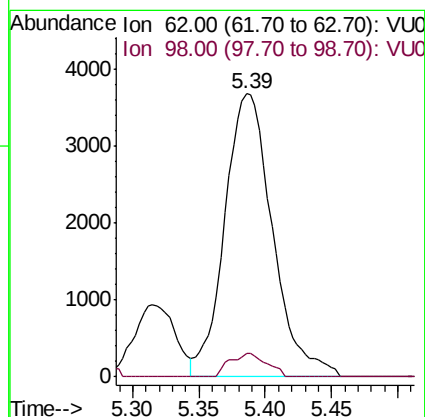
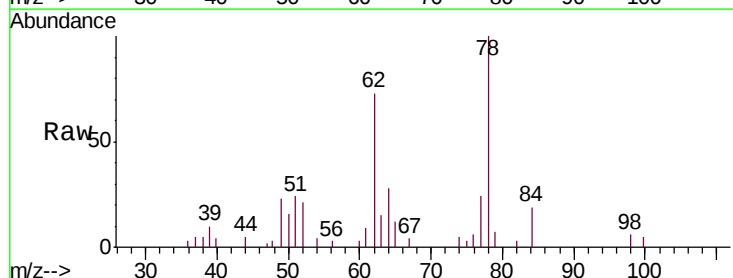
Instrument :
MSVOA_U
ClientSampleId :
MDL01

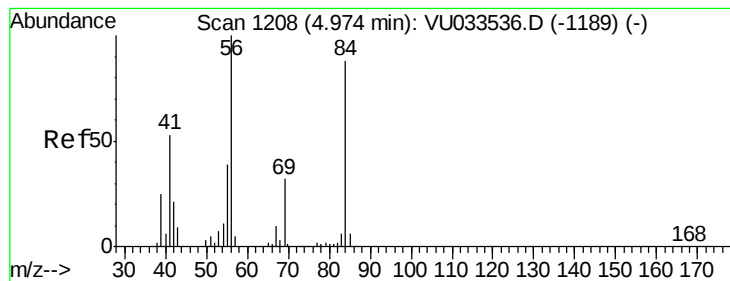
Tgt Ion: 83 Resp: 14829
Ion Ratio Lower Upper
83 100
85 70.8 45.6 84.8



#27
1,2-Dichloroethane
Concen: 3.184 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033538.D
Acq: 01 Aug 2019 10:08

Tgt Ion: 62 Resp: 9236
Ion Ratio Lower Upper
62 100
98 8.2 7.2 10.8





#29

Cyclohexane

Concen: 2.523 ug/L

RT: 4.98 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

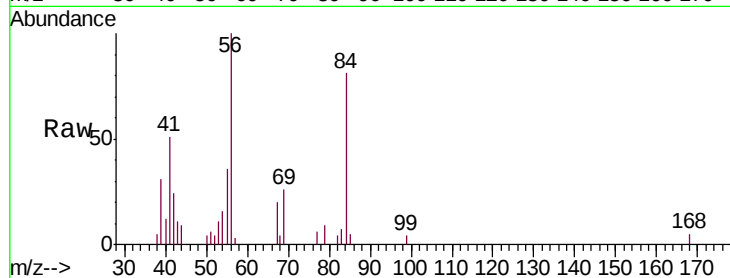
Tgt Ion: 56 Resp: 7784

Ion Ratio Lower Upper

56 100

69 22.5 25.0 37.6#

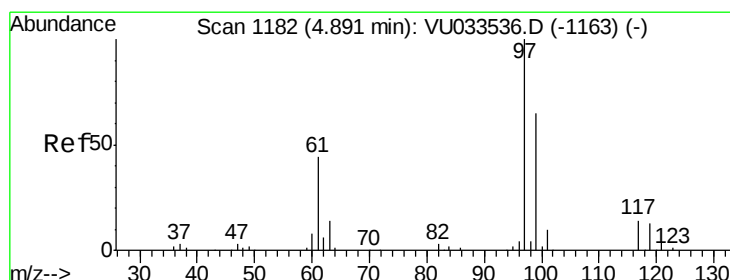
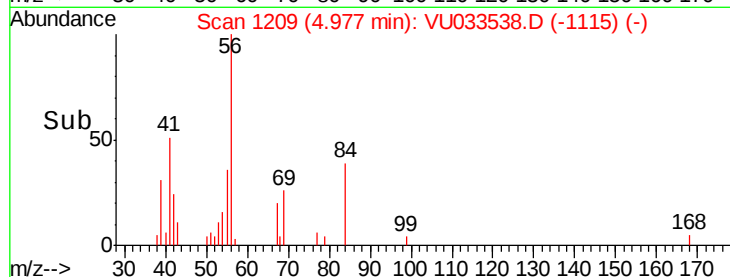
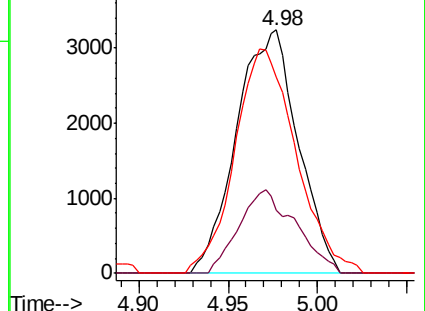
84 92.3 71.6 107.4



Abundance Ion 56.00 (55.70 to 56.70): VU033538.D (-1115) (-)

Ion 69.00 (68.70 to 69.70): VU033538.D (-1115) (-)

Ion 84.00 (83.70 to 84.70): VU033538.D (-1115) (-)



#30

1,1,1-Trichloroethane

Concen: 2.998 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

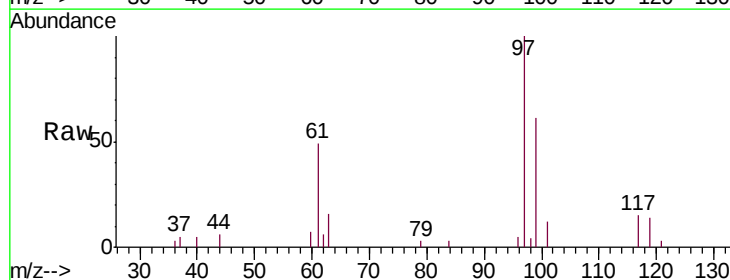
Tgt Ion: 97 Resp: 9756

Ion Ratio Lower Upper

97 100

99 59.2 51.1 76.7

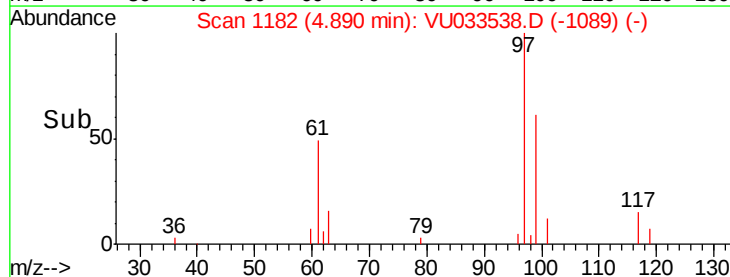
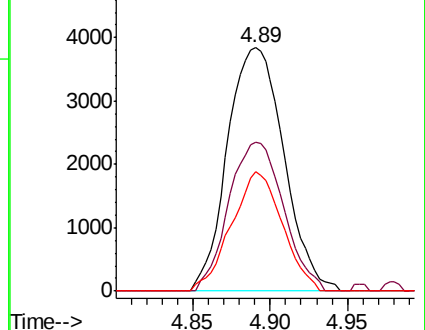
61 44.3 35.5 53.3

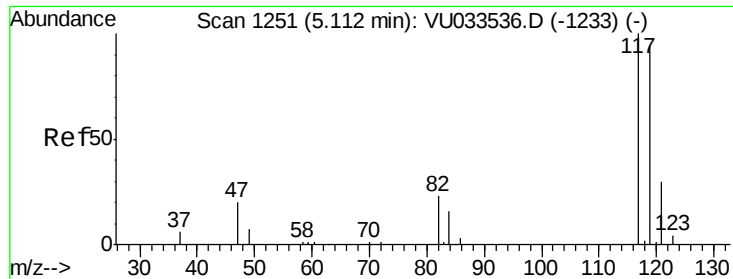


Abundance Ion 97.00 (96.70 to 97.70): VU033538.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033538.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033538.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 2.922 ug/L

RT: 5.12 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

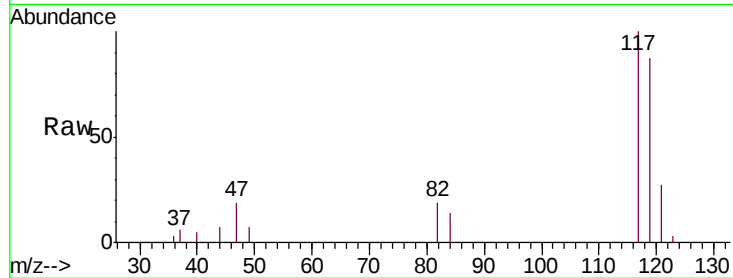
MDL01

Tgt Ion:117 Resp: 8280

Ion Ratio Lower Upper

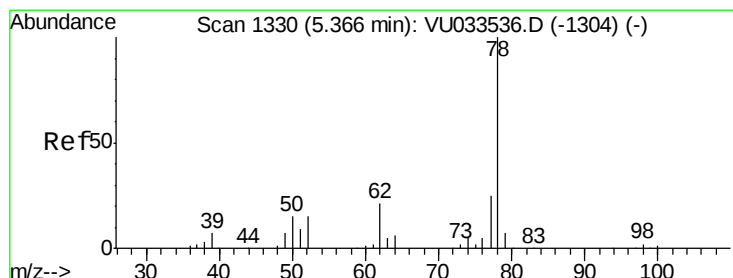
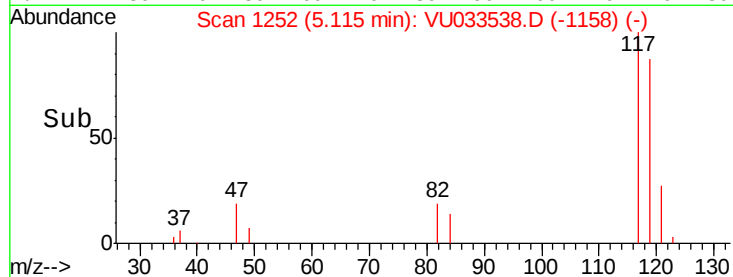
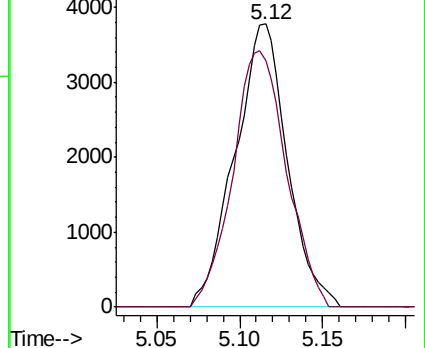
117 100

119 92.9 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 3.037 ug/L

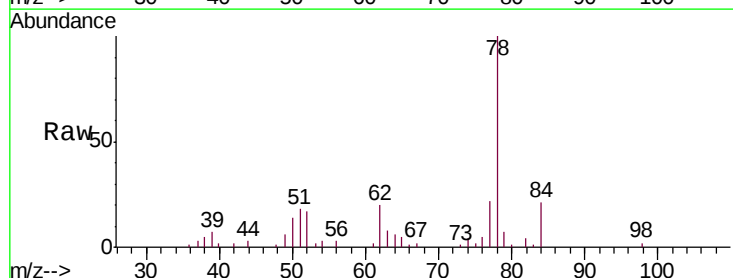
RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

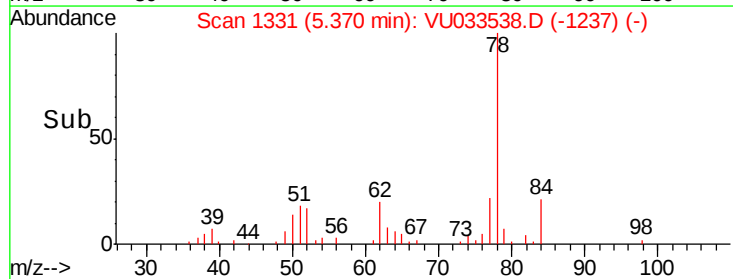
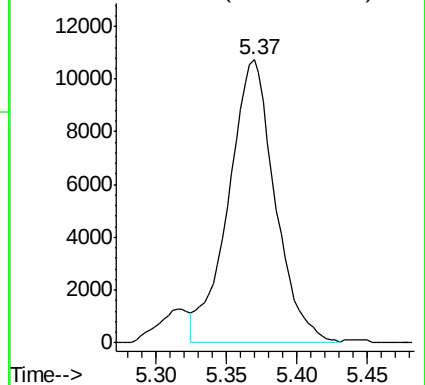
Lab File: VU033538.D

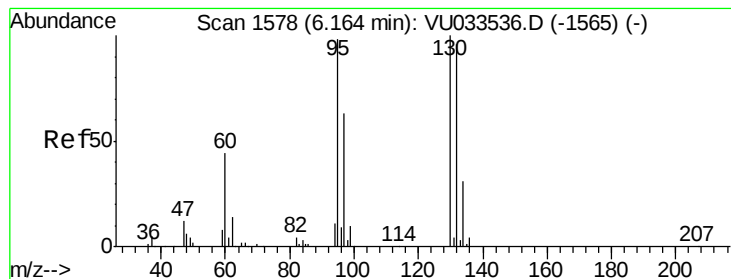
Acq: 01 Aug 2019 10:08

Tgt Ion: 78 Resp: 24777



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.988 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion: 95 Resp: 6431

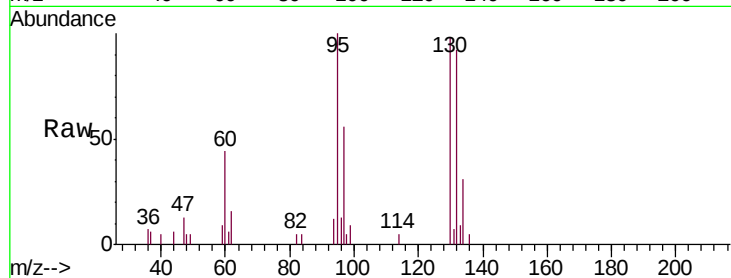
Ion Ratio Lower Upper

95 100

97 55.7 44.7 83.1

132 92.4 66.8 124.0

130 98.5 71.6 133.0

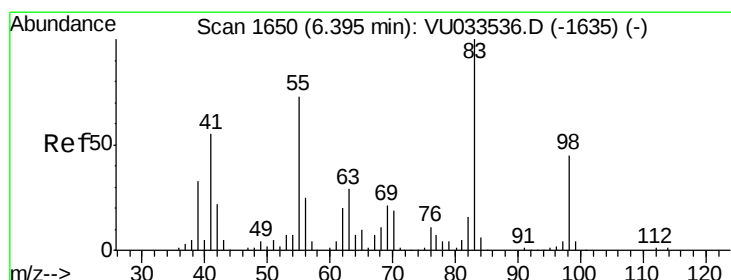
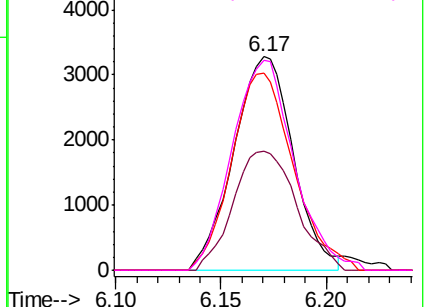
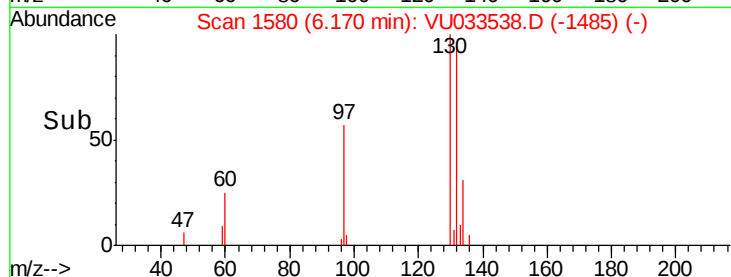


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 2.499 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

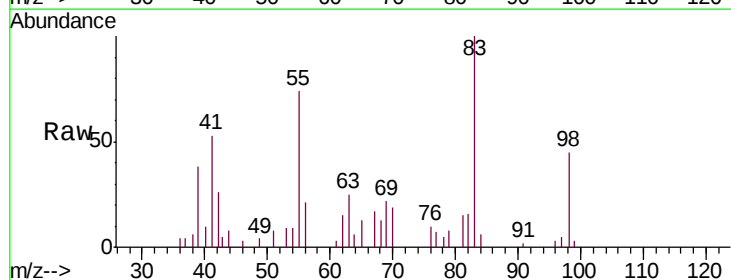
Tgt Ion: 83 Resp: 8395

Ion Ratio Lower Upper

83 100

55 75.8 60.2 90.4

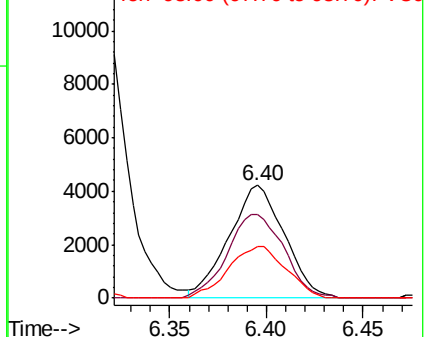
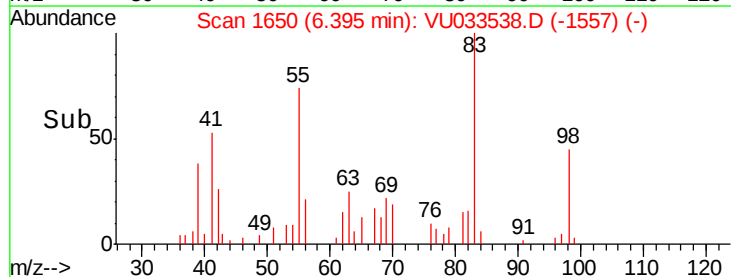
98 47.5 36.5 54.7

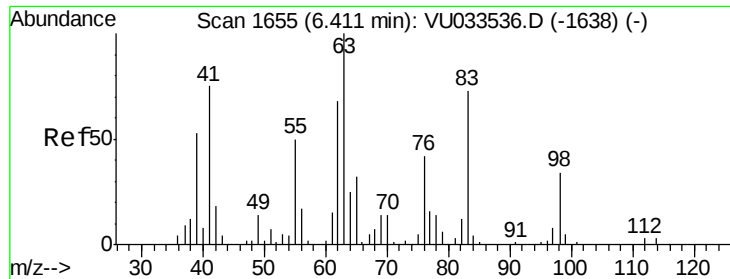


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

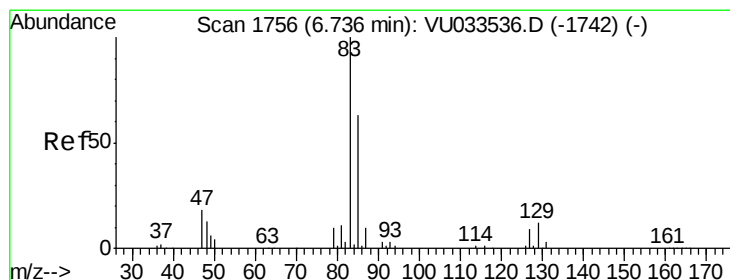
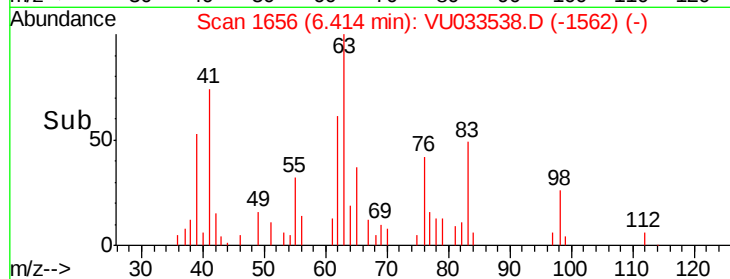
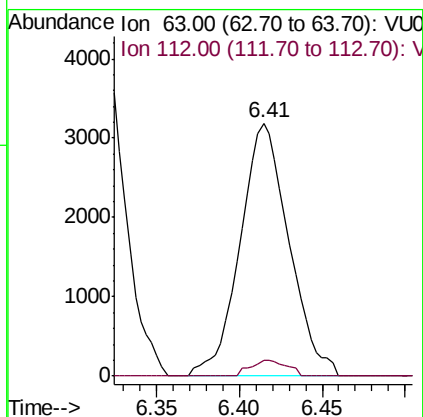
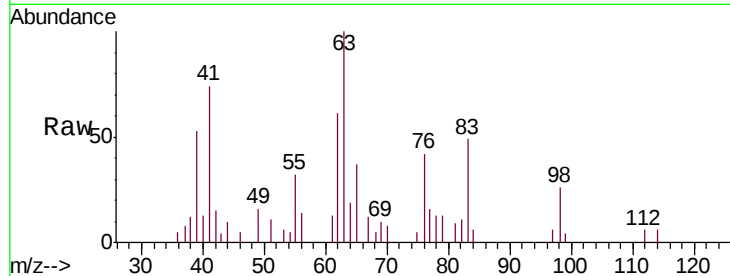




#37
 1,2-Dichloropropane
 Concen: 2.984 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

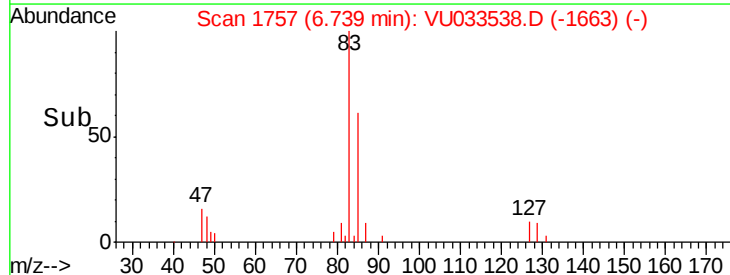
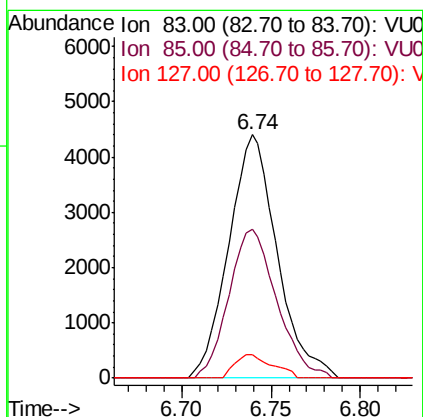
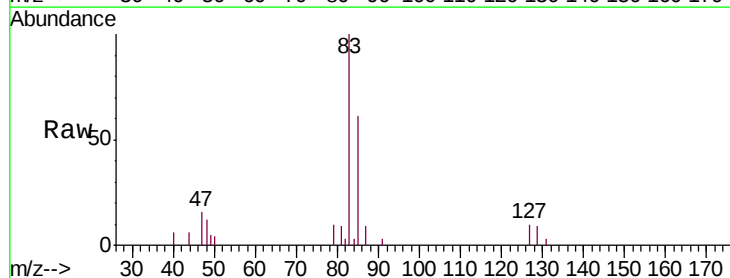
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL01

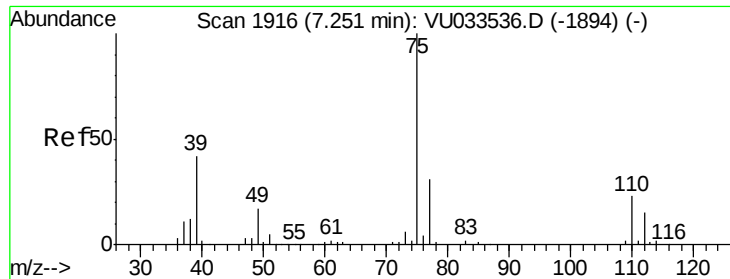
Tgt Ion: 63 Resp: 6518
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.6



#38
 Bromodichloromethane
 Concen: 2.944 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion: 83 Resp: 8313
 Ion Ratio Lower Upper
 83 100
 85 60.9 45.1 83.9
 127 9.5 7.2 10.8

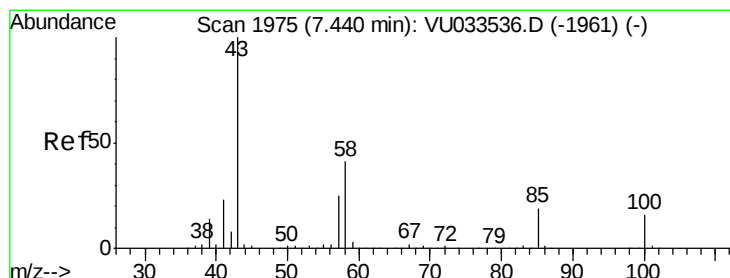
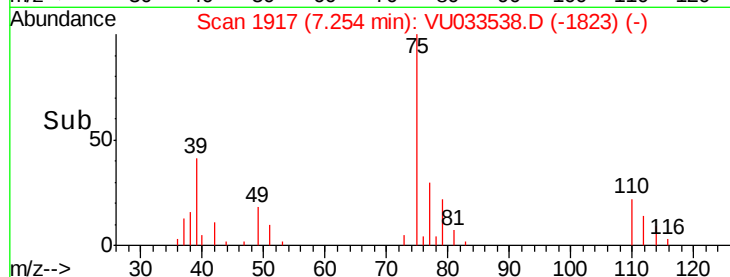
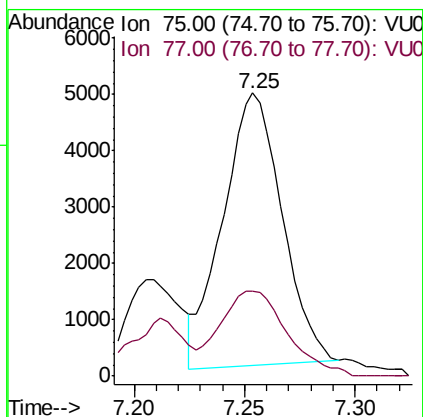
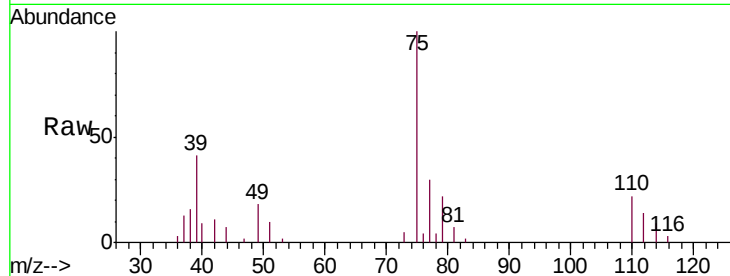




#39
 cis-1,3-Dichloropropene
 Concen: 2.656 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

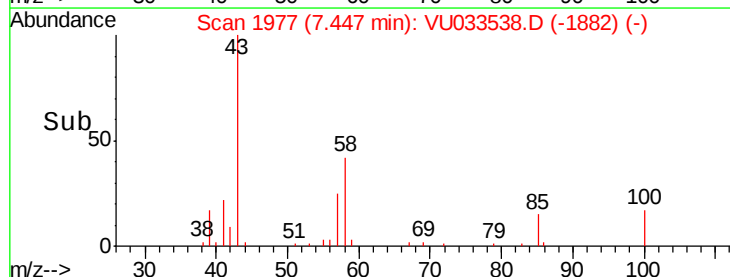
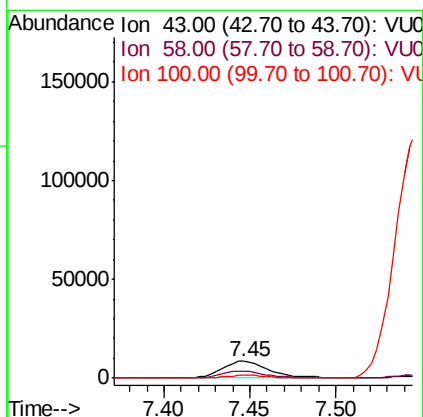
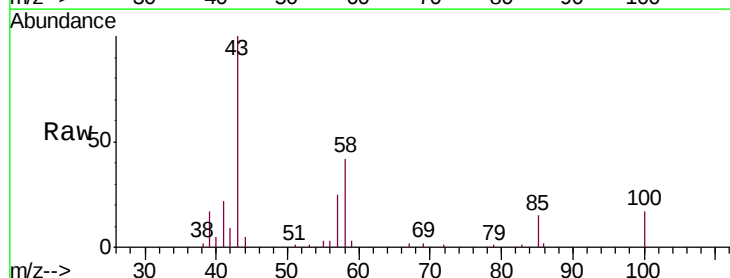
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

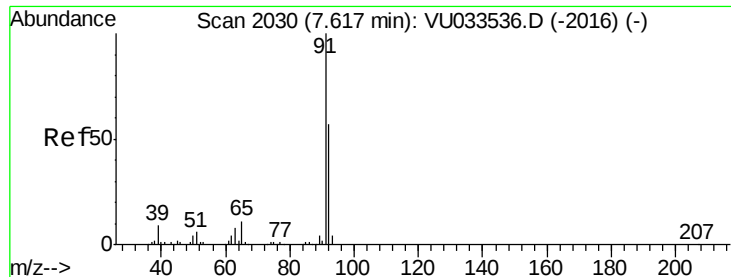
Tgt Ion: 75 Resp: 9055
 Ion Ratio Lower Upper
 75 100
 77 30.0 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 5.425 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion: 43 Resp: 16359
 Ion Ratio Lower Upper
 43 100
 58 40.2 32.8 49.2
 100 14.8 12.9 19.3





#42

Toluene

Concen: 2.899 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

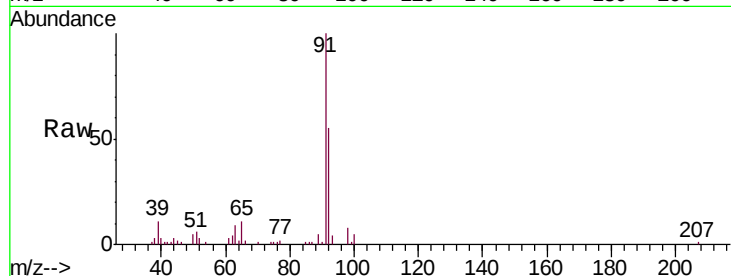
MDL01

Tgt Ion: 91 Resp: 25438

Ion Ratio Lower Upper

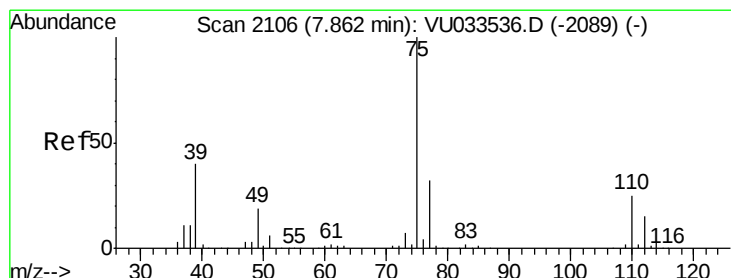
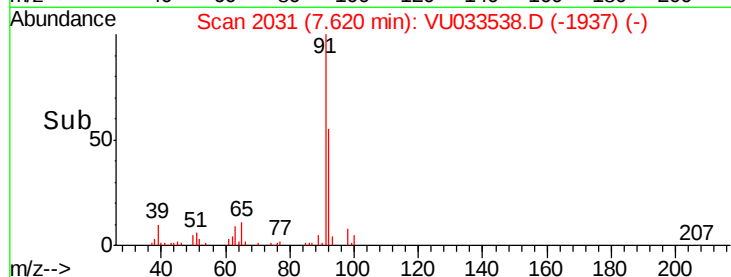
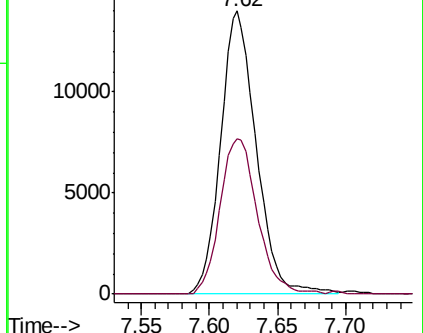
91 100

92 54.9 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033538.D (-2031) (-)

Ion 92.00 (91.70 to 92.70): VU033538.D (-2031) (-)



#44

trans-1,3-Dichloropropene

Concen: 3.450 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033538.D

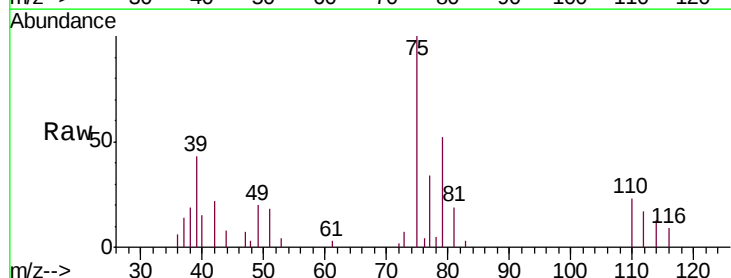
Acq: 01 Aug 2019 10:08

Tgt Ion: 75 Resp: 10628

Ion Ratio Lower Upper

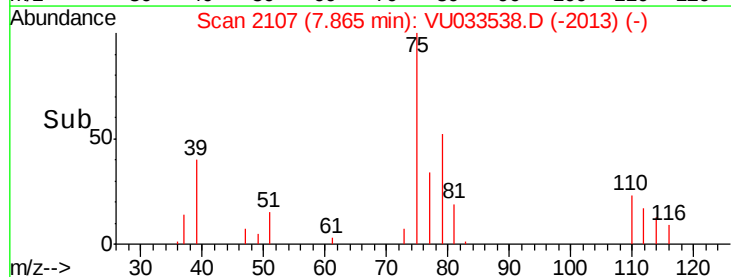
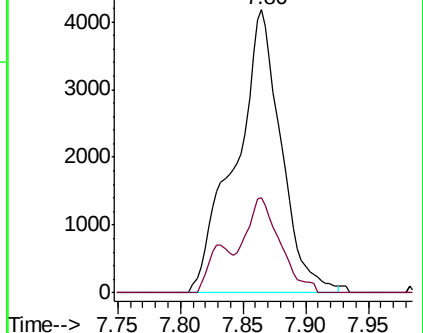
75 100

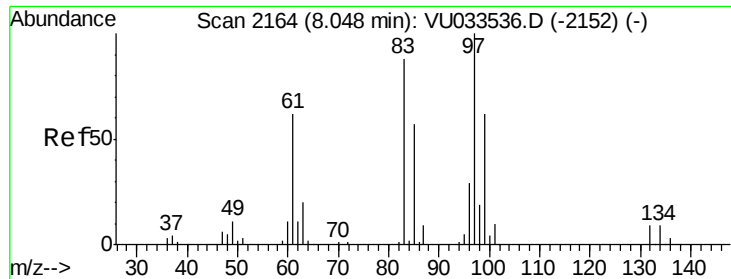
77 33.7 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU033538.D (-2107) (-)

Ion 77.00 (76.70 to 77.70): VU033538.D (-2107) (-)

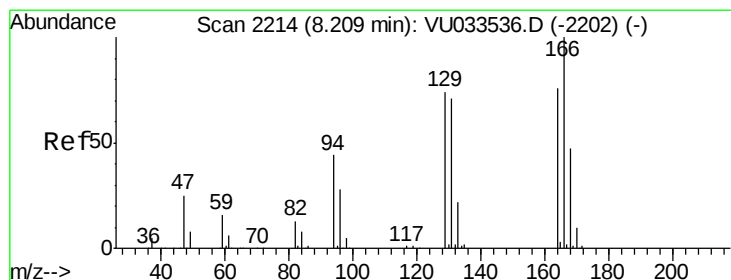
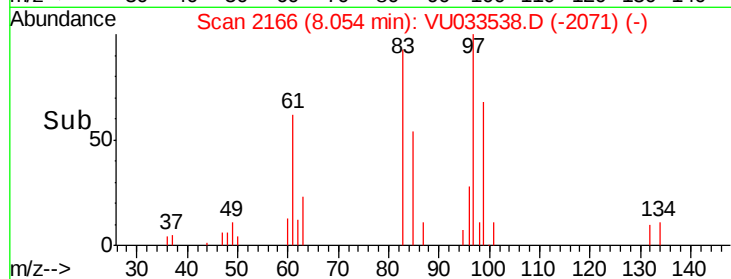
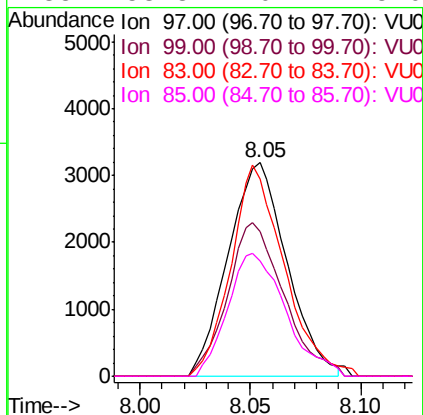
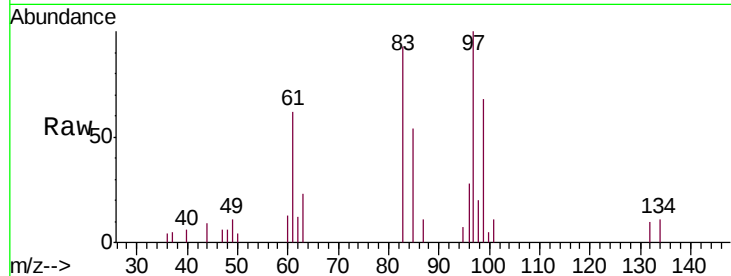




#45
 1,1,2-Trichloroethane
 Concen: 2.851 ug/L
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.01 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

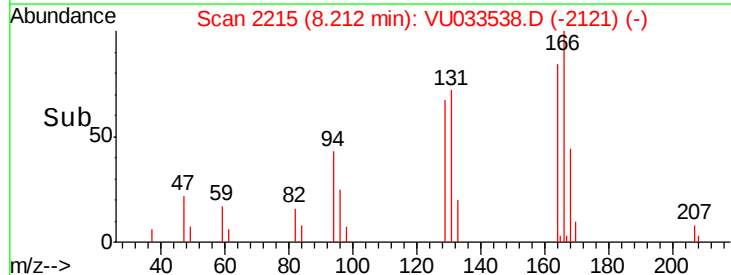
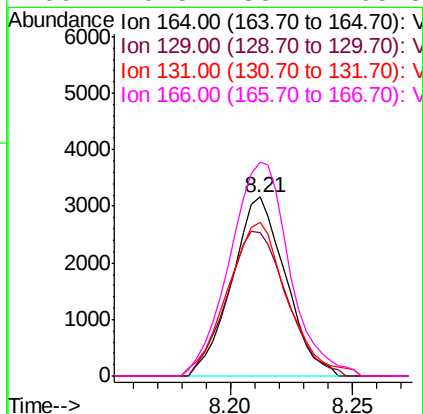
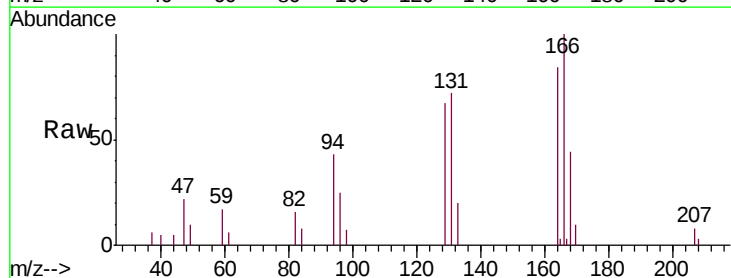
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

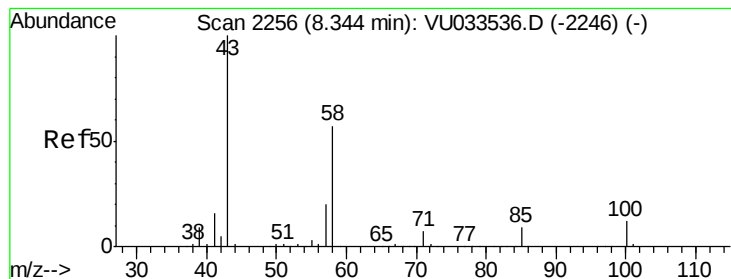
Tgt Ion:	97	Resp:	5912
Ion	Ratio	Lower	Upper
97	100		
99	67.6	44.4	82.4
83	92.5	61.5	114.1
85	53.8	40.4	75.0



#46
 Tetrachloroethene
 Concen: 2.751 ug/L
 RT: 8.21 min Scan# 2215
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion:	164	Resp:	4834
Ion	Ratio	Lower	Upper
164	100		
129	80.4	65.5	121.7
131	86.0	63.3	117.7
166	119.3	88.2	163.8





#48

2-Hexanone

Concen: 6.288 ug/L

RT: 8.35 min Scan# 2258

Delta R.T. 0.01 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion: 43 Resp: 15327

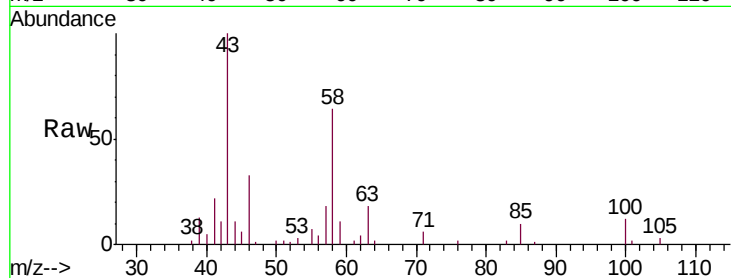
Ion Ratio Lower Upper

43 100

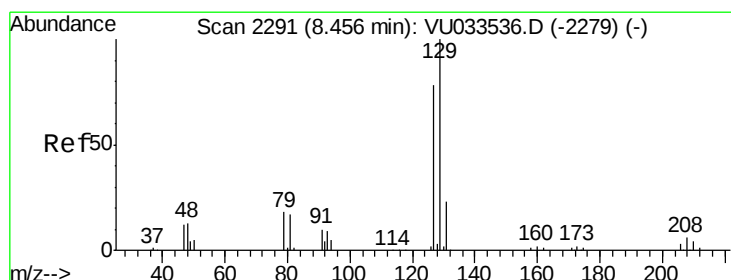
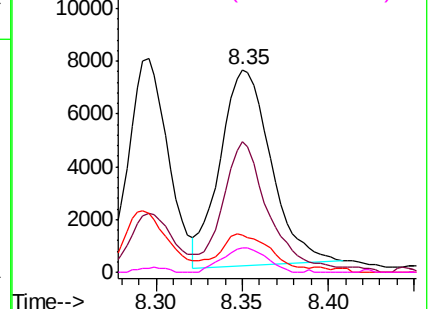
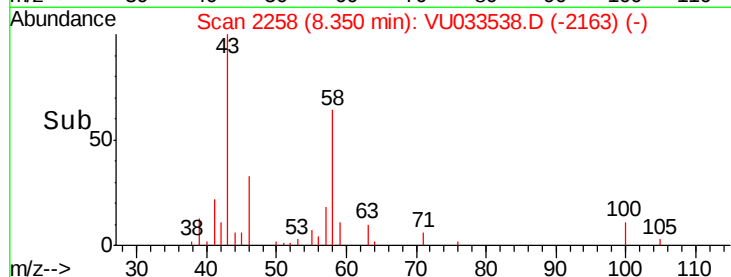
58 55.4 45.8 68.6

57 18.4 15.8 23.6

100 10.8 9.4 14.2



Abundance Ion 43.00 (42.70 to 43.70): VU033538.D (-2163) (-)



#49

Dibromochloromethane

Concen: 2.866 ug/L

RT: 8.46 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU033538.D

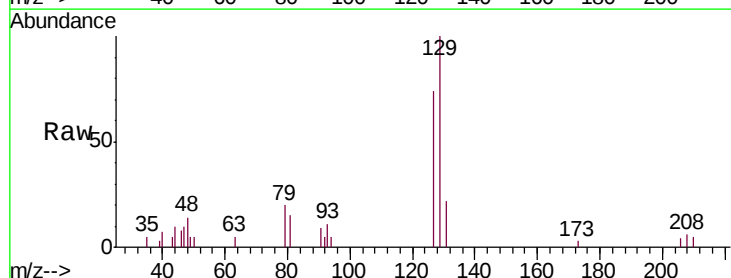
Acq: 01 Aug 2019 10:08

Tgt Ion: 129 Resp: 6761

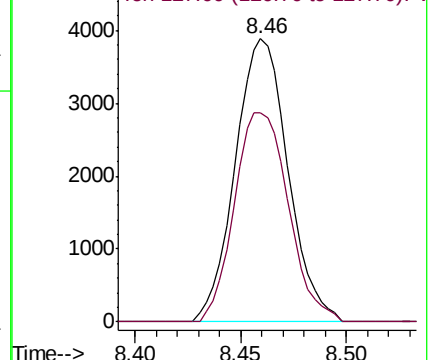
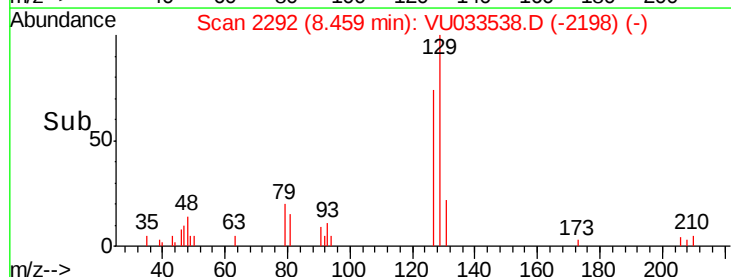
Ion Ratio Lower Upper

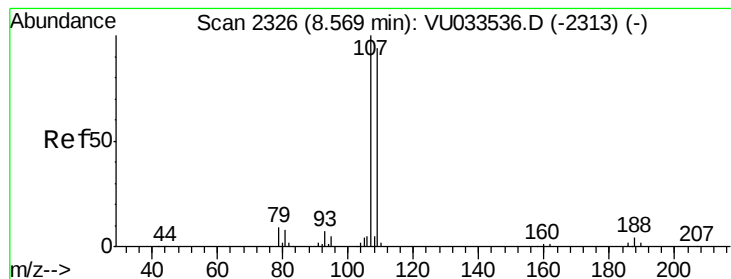
129 100

127 74.0 53.8 99.8



Abundance Ion 129.00 (128.70 to 129.70): VU033538.D (-2198) (-)





#50

1,2-Dibromoethane

Concen: 2.747 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

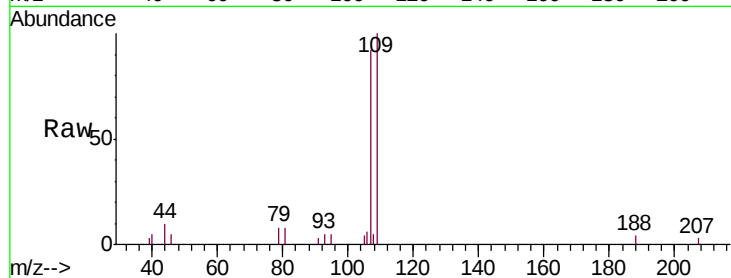
Instrument :

MSVOA_U

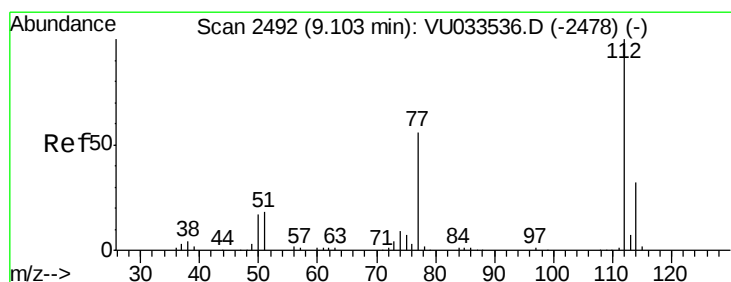
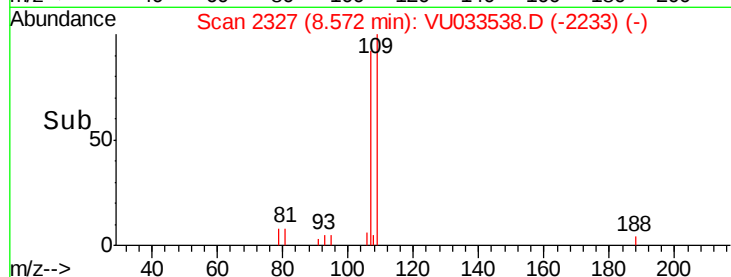
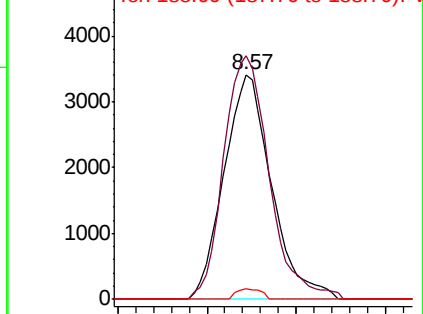
ClientSampleId :

MDL01

Tgt Ion:	107	Resp:	6310
Ion	Ratio	Lower	Upper
107	100		
109	108.5	66.8	124.0
188	4.7	3.0	4.4#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 2.864 ug/L

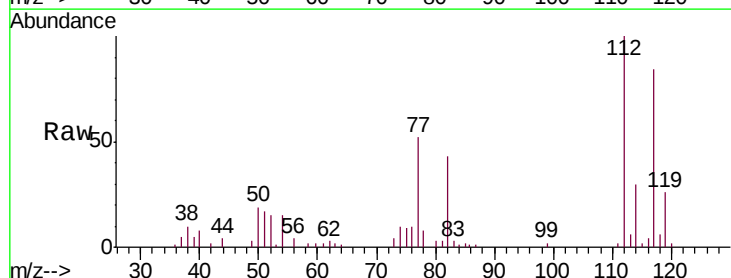
RT: 9.10 min Scan# 2492

Delta R.T. -0.00 min

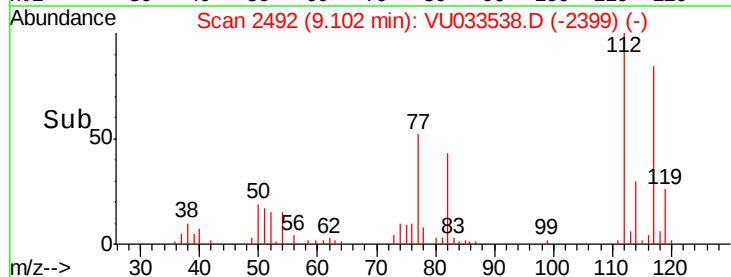
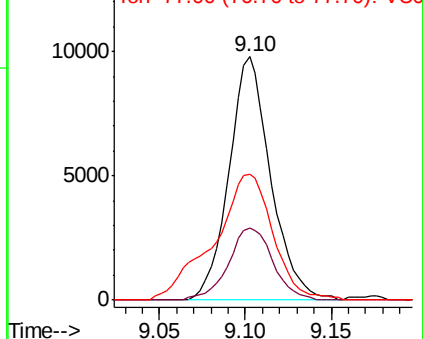
Lab File: VU033538.D

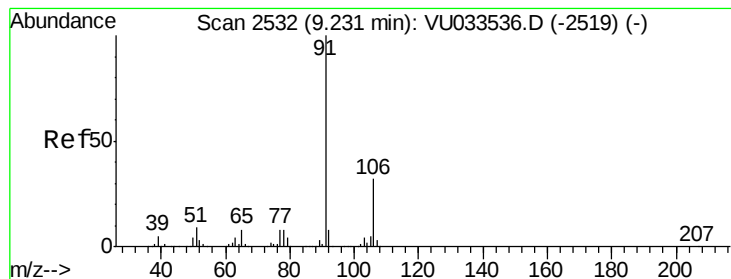
Acq: 01 Aug 2019 10:08

Tgt Ion:	112	Resp:	16453
Ion	Ratio	Lower	Upper
112	100		
114	29.6	22.3	41.5
77	51.6	45.6	68.4



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 2.621 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

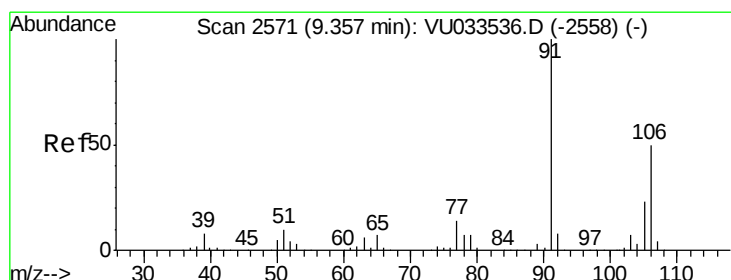
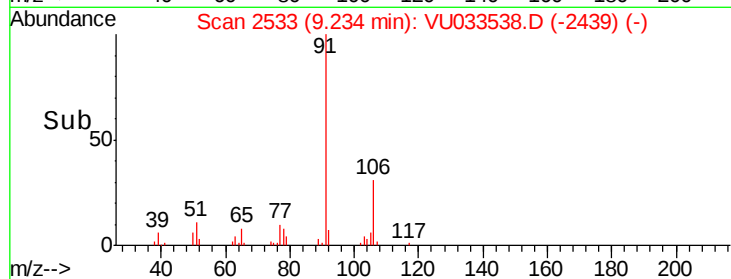
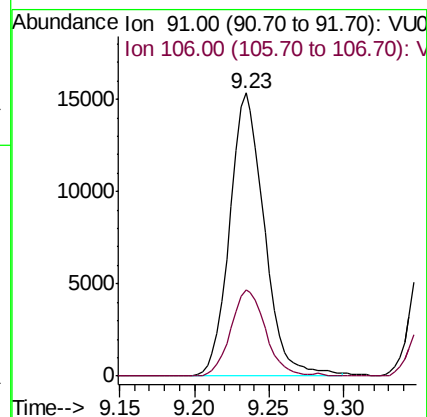
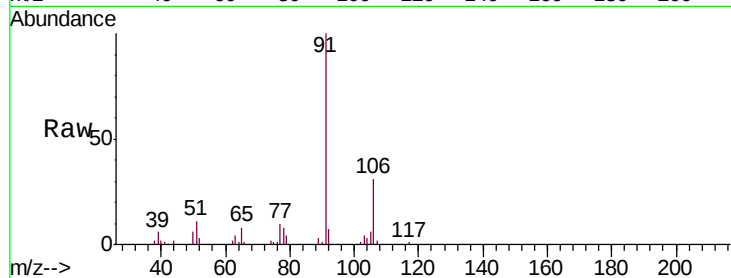
MDL01

Tgt Ion: 91 Resp: 24764

Ion Ratio Lower Upper

91 100

106 30.5 22.2 41.2



#53

m,p-Xylene

Concen: 2.442 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033538.D

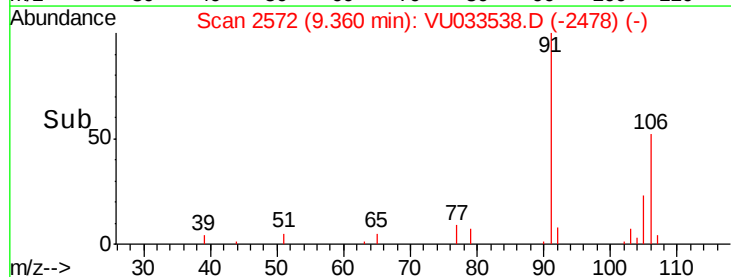
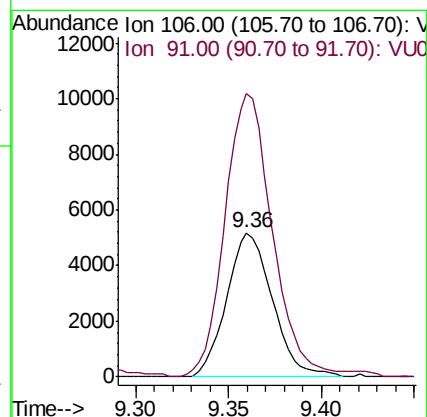
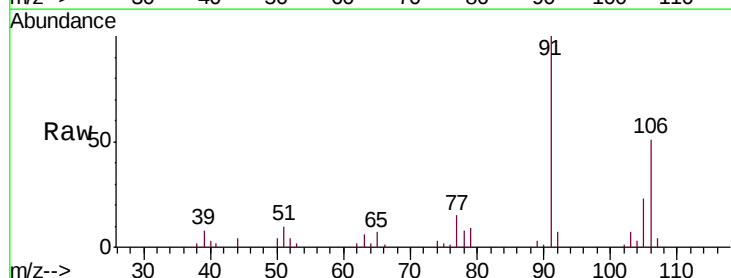
Acq: 01 Aug 2019 10:08

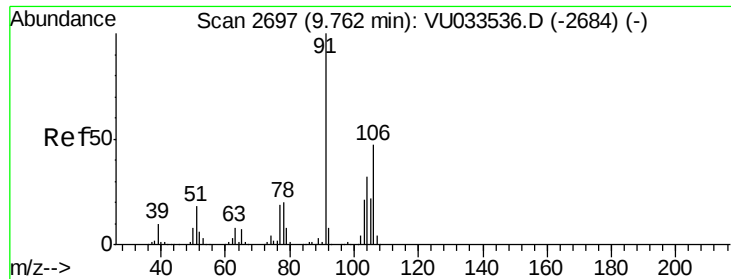
Tgt Ion: 106 Resp: 8858

Ion Ratio Lower Upper

106 100

91 196.5 143.0 265.6





#54

o-xylene

Concen: 2.470 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

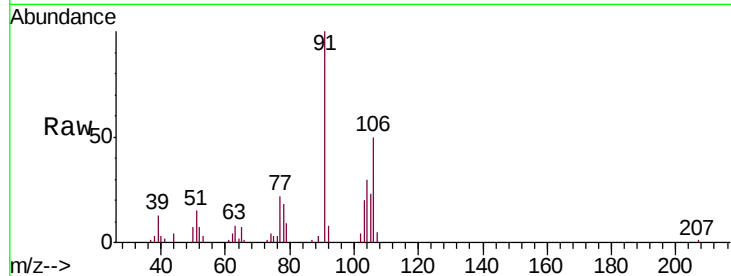
MDL01

Tgt Ion:106 Resp: 8689

Ion Ratio Lower Upper

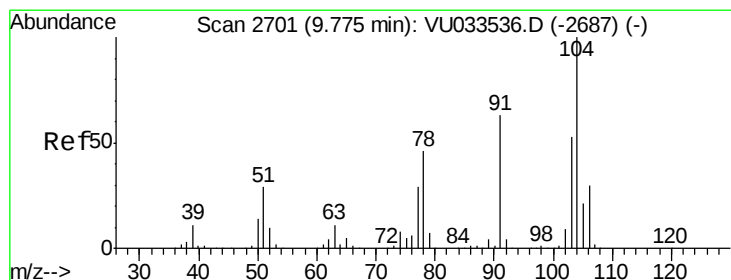
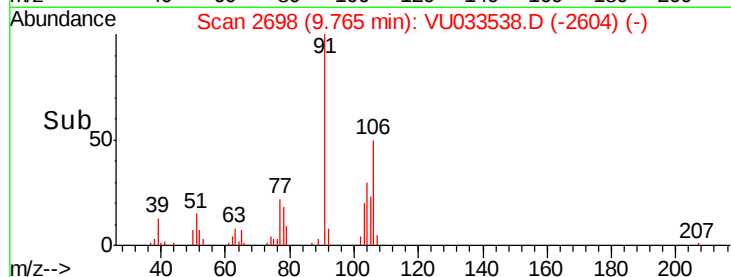
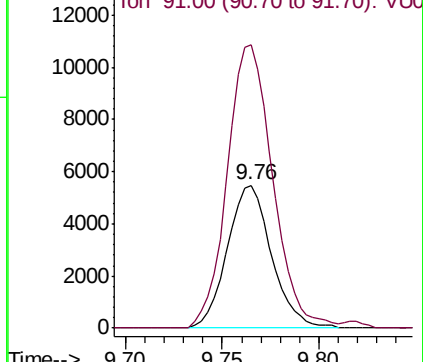
106 100

91 198.5 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.279 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VU033538.D

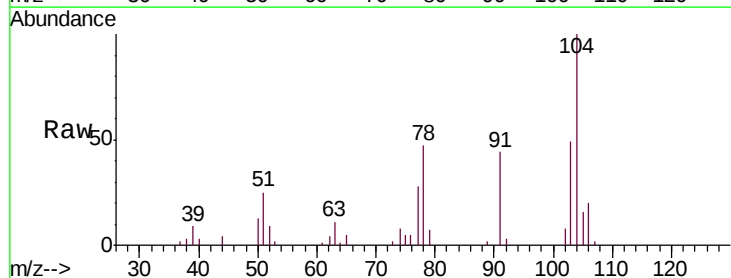
Acq: 01 Aug 2019 10:08

Tgt Ion:104 Resp: 13616

Ion Ratio Lower Upper

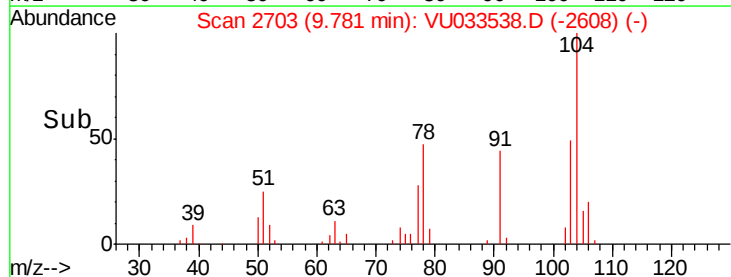
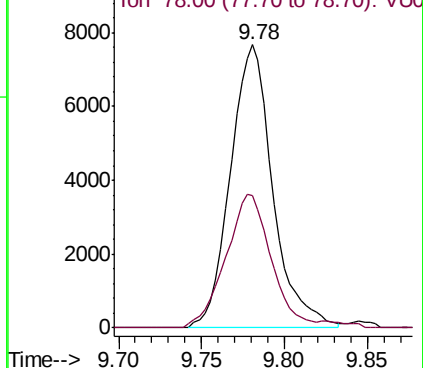
104 100

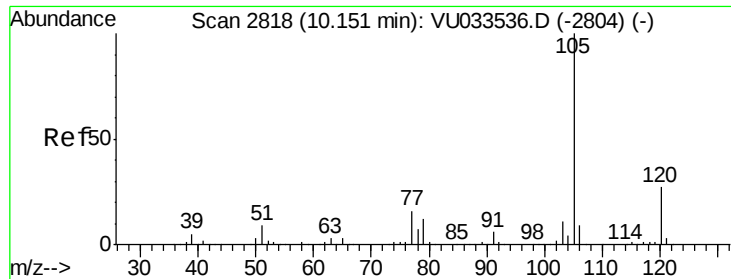
78 46.7 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 2.335 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

MDL01

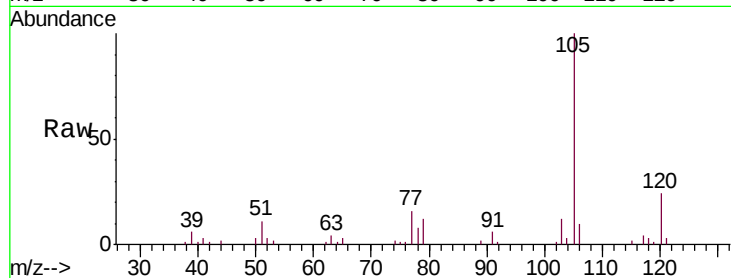
Tgt Ion: 105 Resp: 21464

Ion Ratio Lower Upper

105 100

120 24.9 21.4 32.0

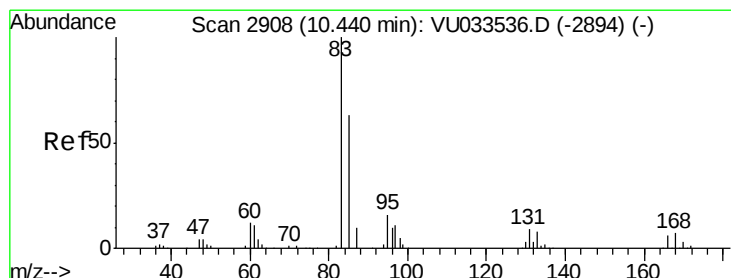
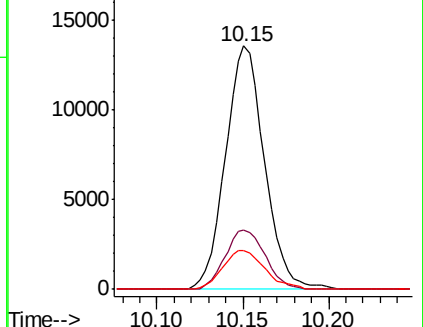
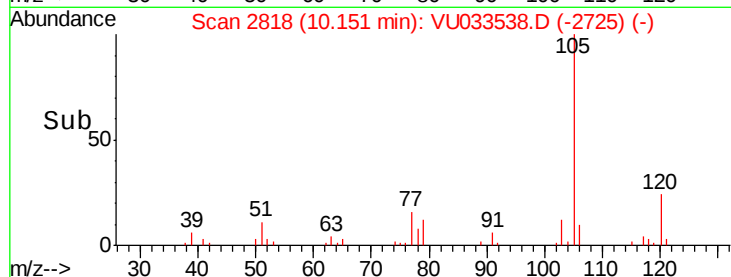
77 17.1 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 3.213 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

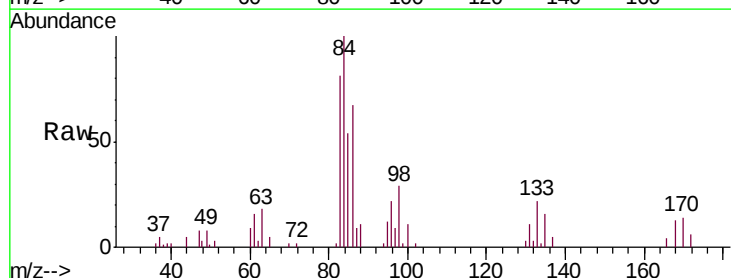
Tgt Ion: 83 Resp: 12017

Ion Ratio Lower Upper

83 100

85 66.7 45.4 84.4

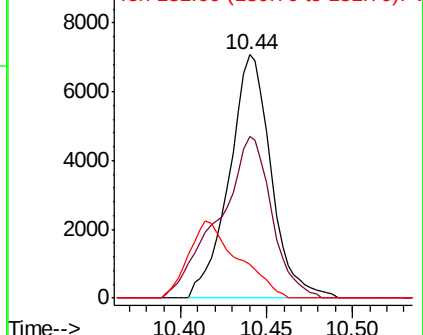
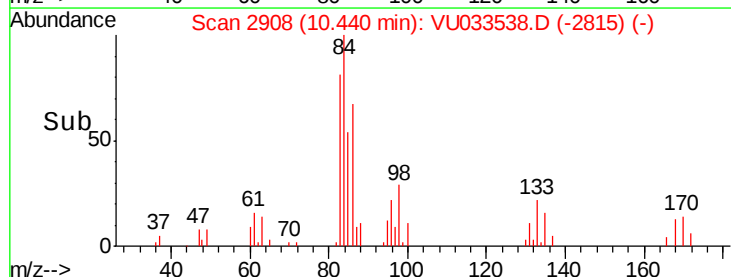
131 13.8 7.9 11.9#

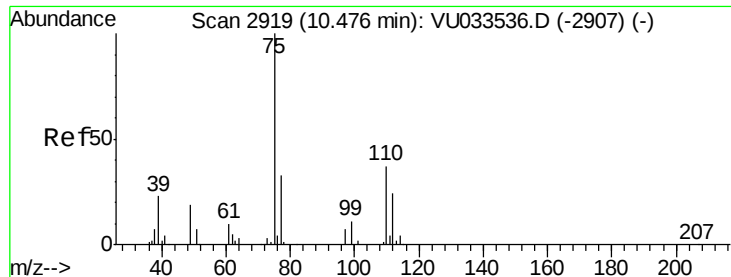


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

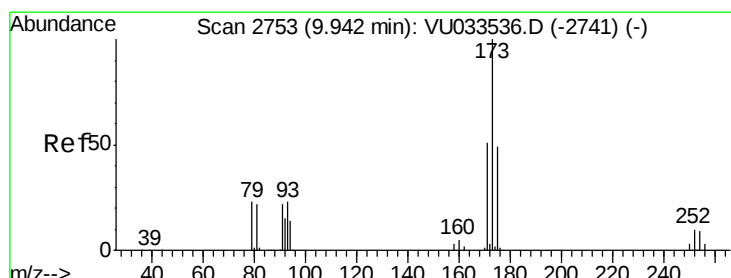
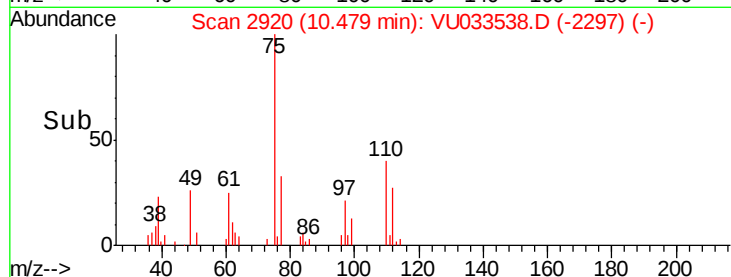
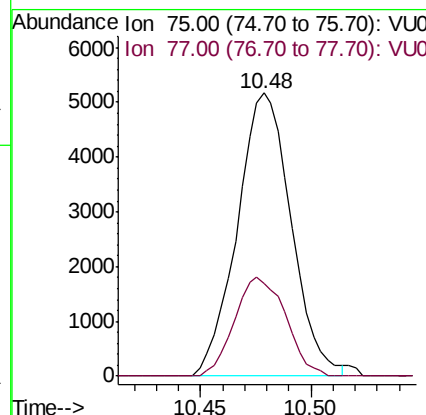
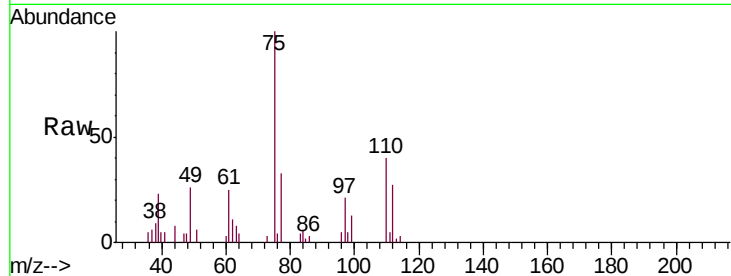




#59
 1,2,3-Trichloropropane
 Concen: 3.043 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

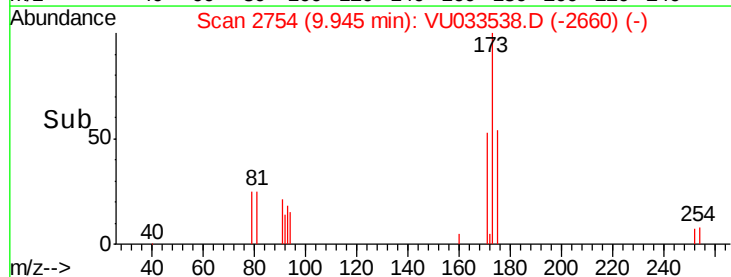
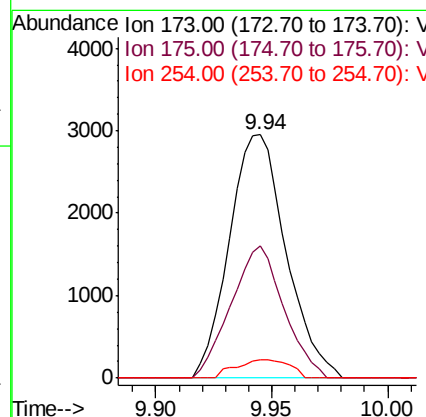
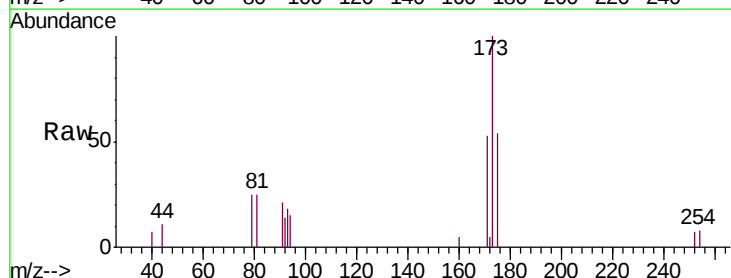
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

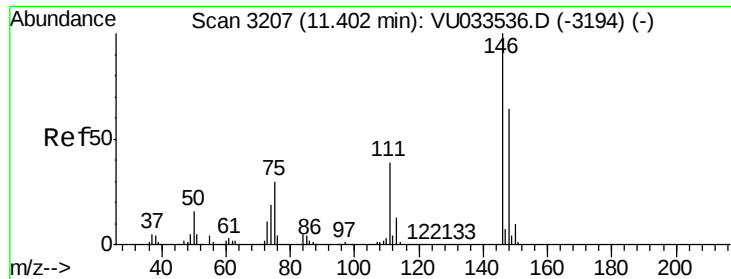
Tgt Ion: 75 Resp: 8772
 Ion Ratio Lower Upper
 75 100
 77 33.2 25.8 38.6



#61
 Bromoform
 Concen: 2.975 ug/L
 RT: 9.94 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion: 173 Resp: 5018
 Ion Ratio Lower Upper
 173 100
 175 50.5 38.7 58.1
 254 5.6 7.5 11.3#





#62

1,3-Dichlorobenzene

Concen: 2.752 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

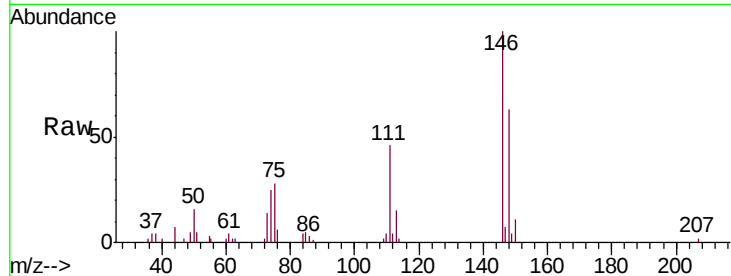
Tgt Ion:146 Resp: 11802

Ion Ratio Lower Upper

146 100

111 45.6 28.1 52.1

148 62.9 45.0 83.6

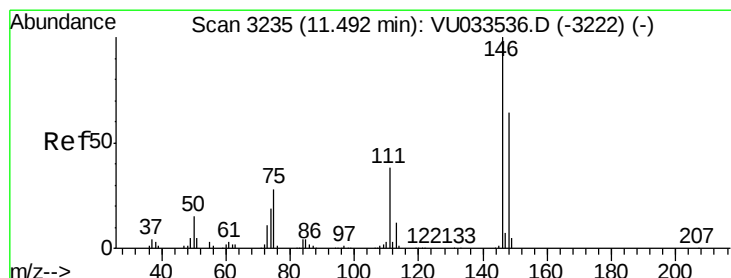
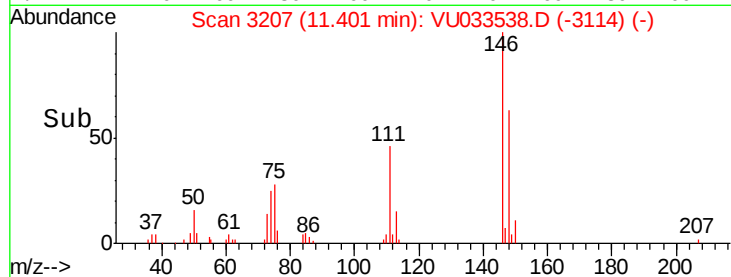
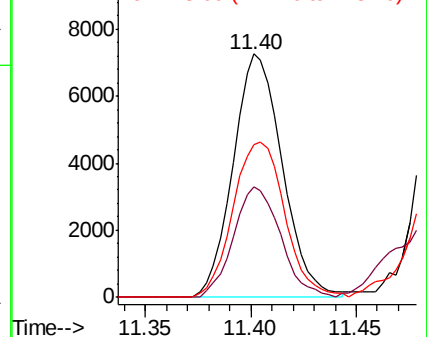


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 2.980 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

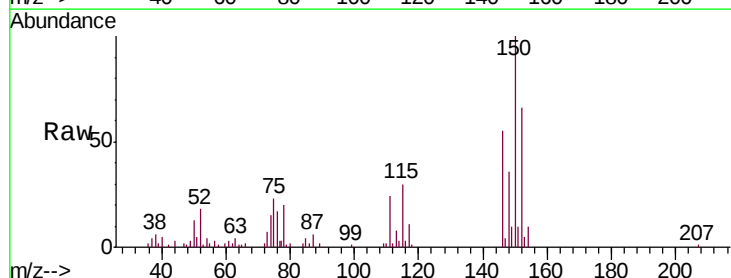
Tgt Ion:146 Resp: 13274

Ion Ratio Lower Upper

146 100

111 42.9 27.2 50.4

148 66.0 44.5 82.7

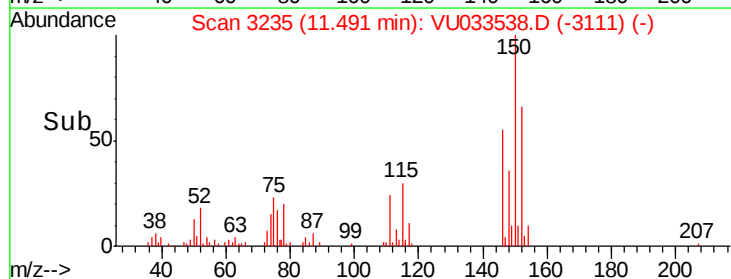
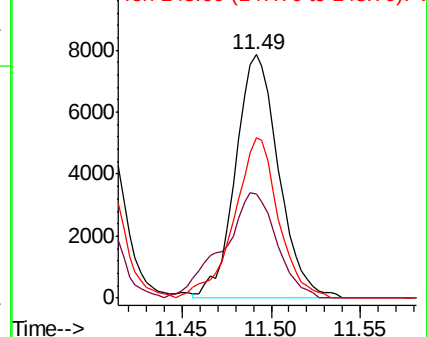


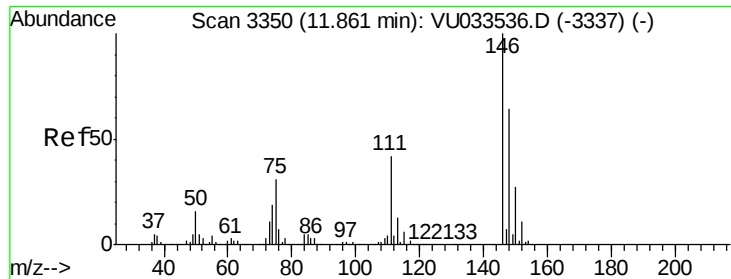
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 3.089 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

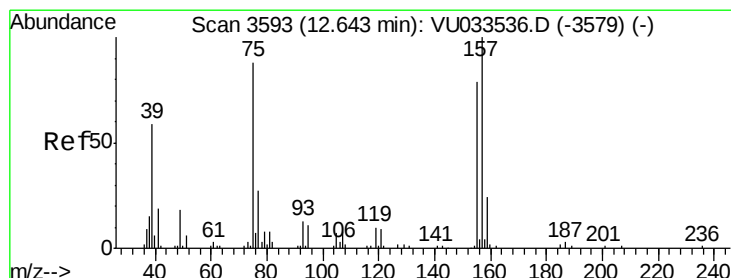
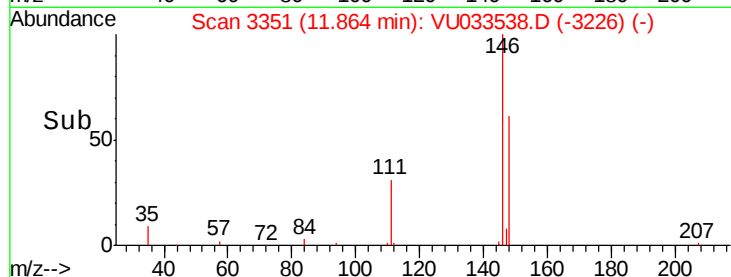
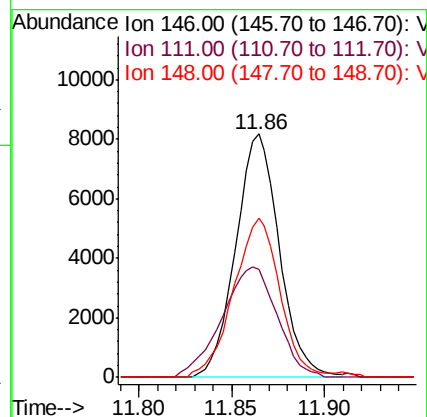
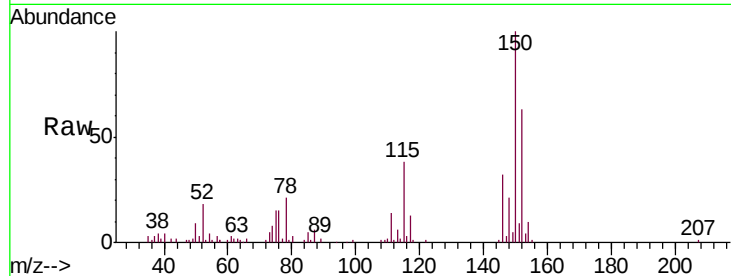
Tgt Ion:146 Resp: 13393

Ion Ratio Lower Upper

146 100

111 44.1 31.7 47.5

148 65.2 50.3 75.5



#66

1,2-Dibromo-3-chloropropane

Concen: 2.710 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

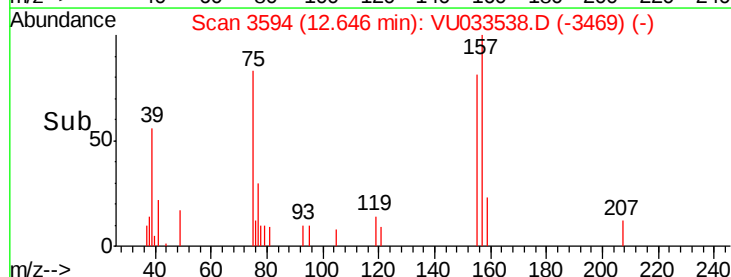
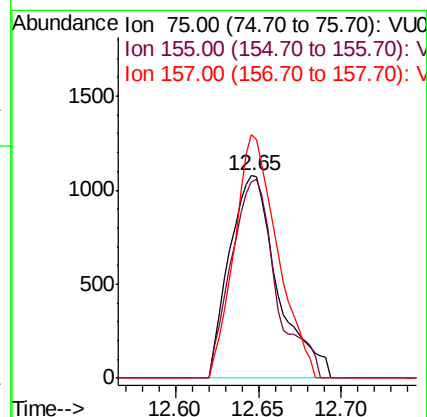
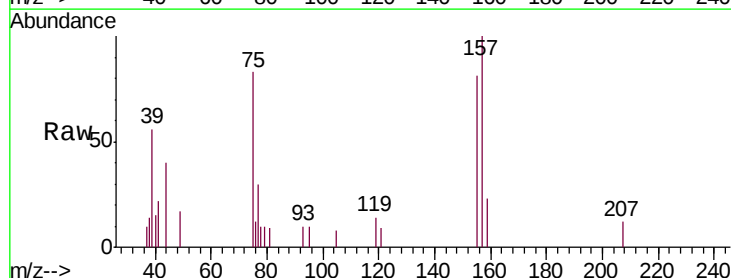
Tgt Ion: 75 Resp: 2171

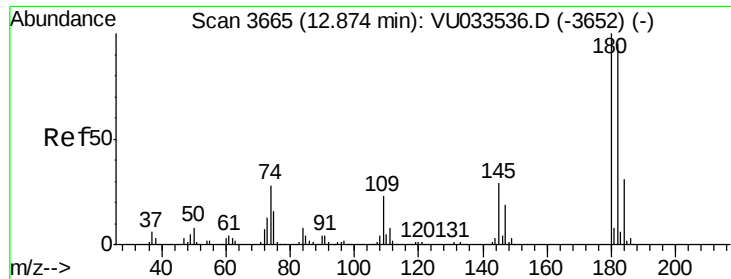
Ion Ratio Lower Upper

75 100

155 97.1 69.4 104.0

157 120.3 91.8 137.8

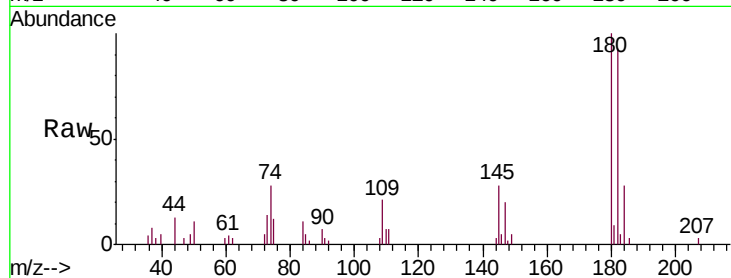




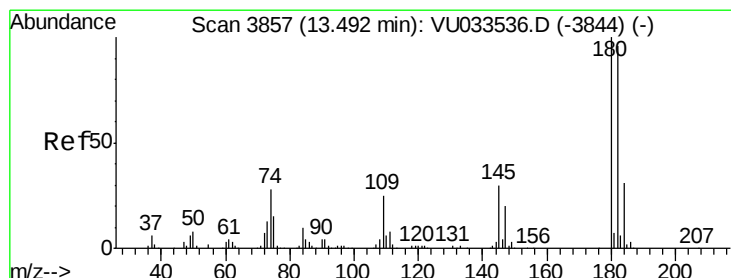
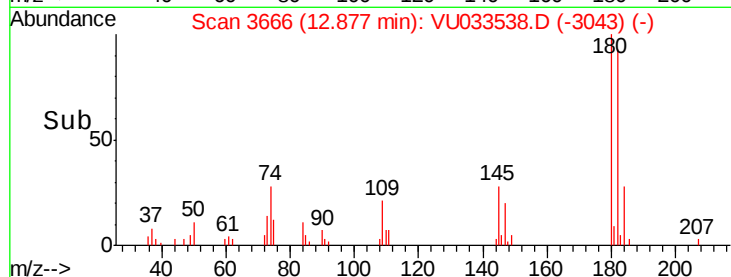
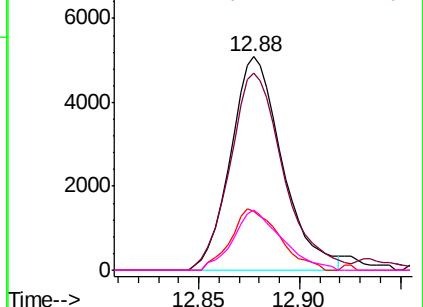
#67
 1,3,5-Trichlorobenzene
 Concen: 2.631 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tgt Ion:	180	Resp:	9102
Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.6	113.4
184	26.9	24.2	36.2
145	26.7	22.7	34.1

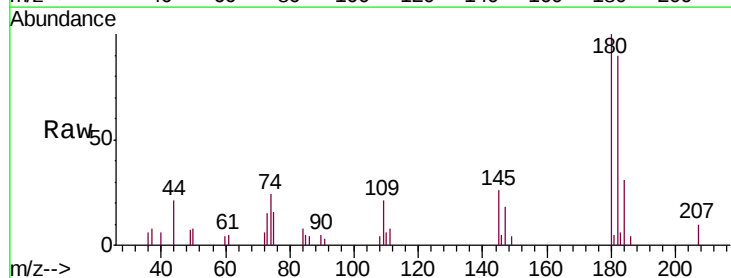


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

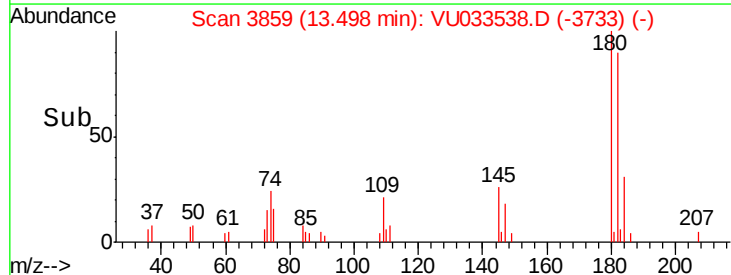
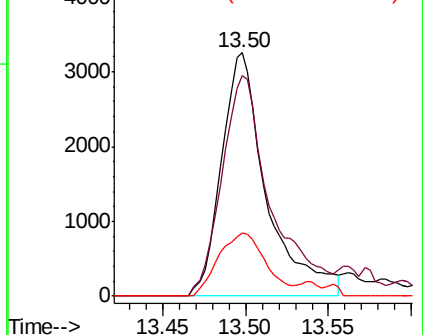


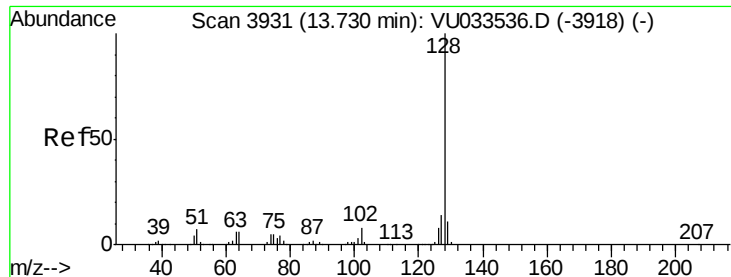
#68
 1,2,4-trichlorobenzene
 Concen: 2.084 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033538.D
 Acq: 01 Aug 2019 10:08

Tgt Ion:	180	Resp:	6160
Ion	Ratio	Lower	Upper
180	100		
182	98.6	75.8	113.8
145	26.9	24.3	36.5



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





#69

Naphthalene

Concen: 1.655 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.01 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

Instrument :

MSVOA_U

ClientSampleId :

MDL01

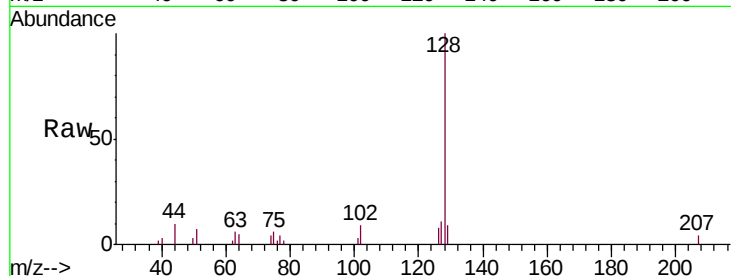
Tgt Ion:128 Resp: 14034

Ion Ratio Lower Upper

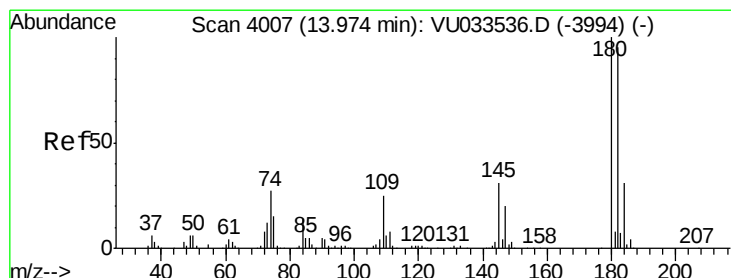
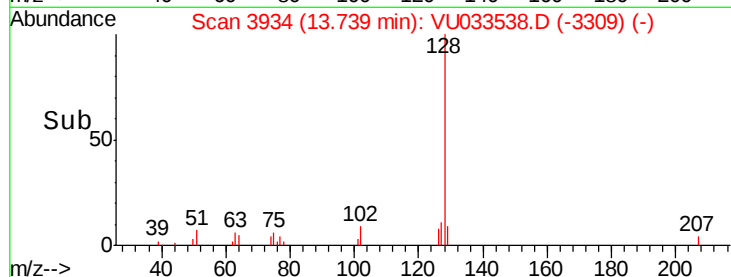
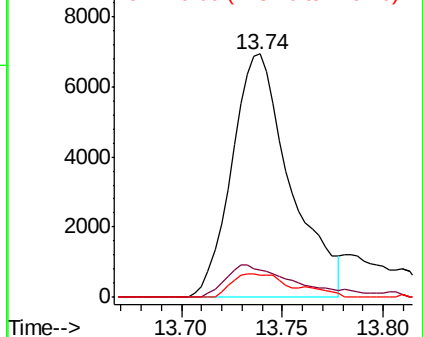
128 100

127 14.5 10.8 16.2

129 4.9 8.7 13.1#



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



#70

1,2,3-Trichlorobenzene

Concen: 2.243 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.01 min

Lab File: VU033538.D

Acq: 01 Aug 2019 10:08

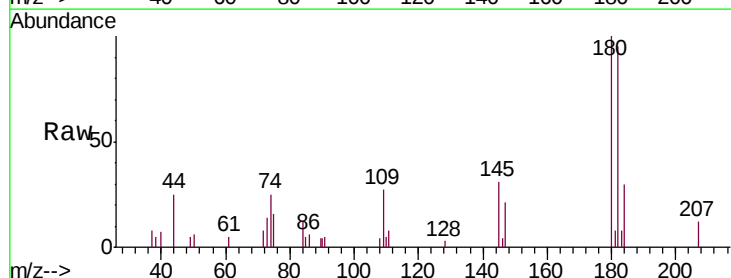
Tgt Ion:180 Resp: 6974

Ion Ratio Lower Upper

180 100

182 92.4 75.5 113.3

145 30.2 24.4 36.6



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

