

Data File : VU033539.D
Acq On : 01 Aug 2019 10:31
Operator : JC/SP
Sample : MDL02
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Quant Time: Aug 02 01:53:12 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	295570	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	291975	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	143005	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	103463	48.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.28%
7) Chloroethane-d5	1.67	69	94119	51.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.10%
11) 1,1-Dichloroethene-d2	2.26	63	144416	37.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.06%
21) 2-Butanone-d5	4.14	46	171677	120.62	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.62%
24) Chloroform-d	4.62	84	194876	54.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.20%
26) 1,2-Dichloroethane-d4	5.28	65	128729	56.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	112.86%
32) Benzene-d6	5.32	84	394188	54.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.92%
36) 1,2-Dichloropropane-d6	6.31	67	127942	56.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	112.78%
41) Toluene-d8	7.55	98	356697	52.59	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.18%
43) trans-1,3-Dichloropropene-	7.83	79	58518	51.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.98%
47) 2-Hexanone-d5	8.29	63	125044	116.08	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.08%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	195238	55.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	111.62%
64) 1,2-Dichlorobenzene-d4	11.85	152	141963	54.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.42%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	7759	2.784 ug/L	93
3) Chloromethane	1.32	50	8387	2.987 ug/L	98
5) Vinyl chloride	1.40	62	8603	2.858 ug/L #	77
6) Bromomethane	1.62	94	5925	2.231 ug/L	95
8) Chloroethane	1.69	64	5668	3.099 ug/L	97
9) Trichlorofluoromethane	1.87	101	11564	2.937 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7046	3.530 ug/L #	74
12) 1,1-Dichloroethene	2.27	96	6622	3.460 ug/L #	1
13) Acetone	2.31	43	9636	6.617 ug/L	99
14) Carbon disulfide	2.46	76	17623	2.935 ug/L	98
15) Methyl Acetate	2.60	43	7042	3.038 ug/L	90
16) Methylene chloride	2.68	84	6791	3.106 ug/L	99
17) trans-1,2-Dichloroethene	2.97	96	5694	2.839 ug/L	89
18) Methyl tert-butyl Ether	2.98	73	16126	2.637 ug/L #	89
19) 1,1-Dichloroethane	3.42	63	11290	2.999 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	6599	2.932 ug/L	91
22) 2-Butanone	4.25	43	9227	5.308 ug/L	77

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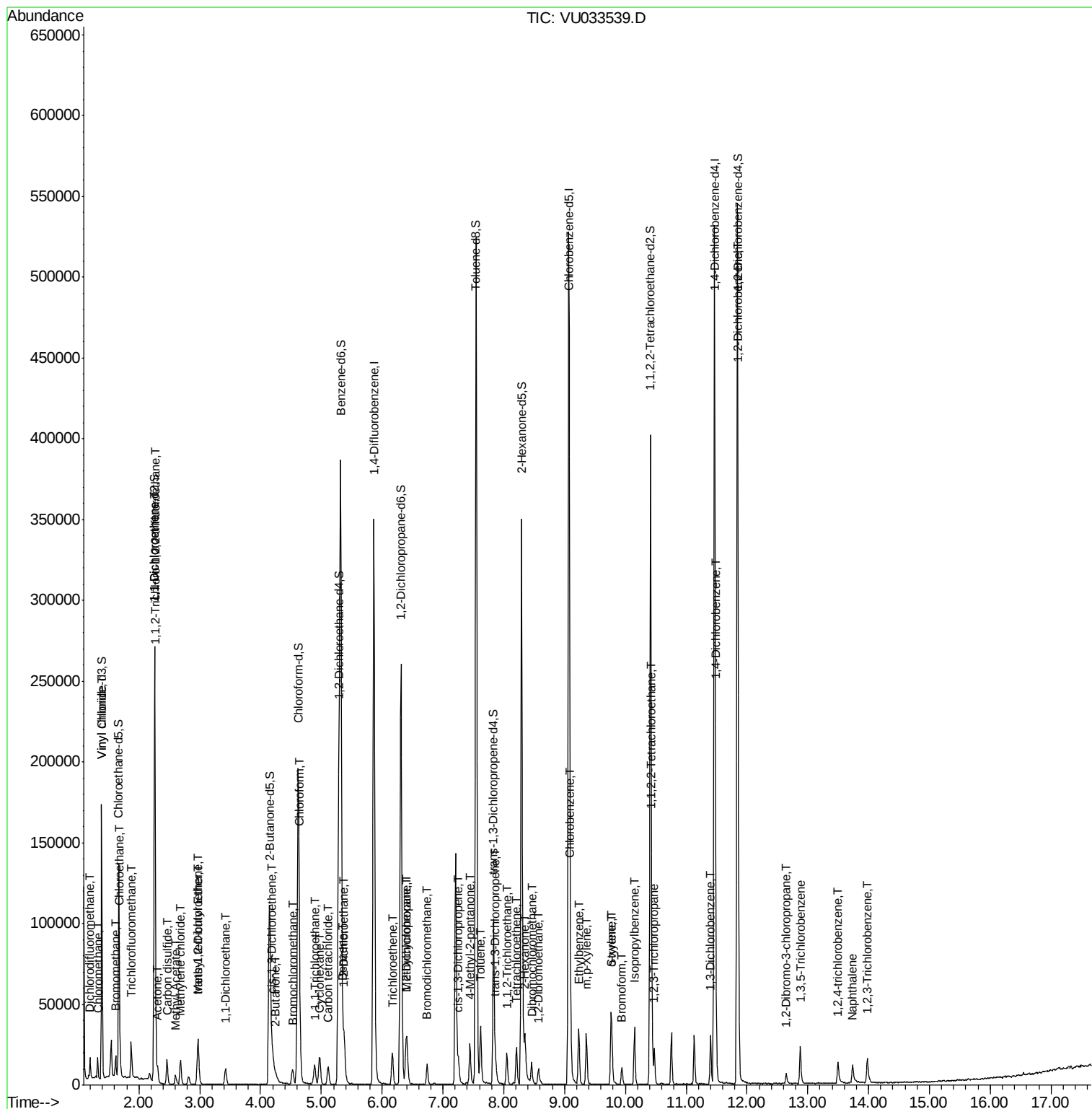
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3645	3.104	ug/L	94
25) Chloroform	4.65	83	15515	3.917	ug/L	98
27) 1,2-Dichloroethane	5.38	62	9425	3.090	ug/L #	94
29) Cyclohexane	4.97	56	7667	2.407	ug/L #	62
30) 1,1,1-Trichloroethane	4.89	97	9451	2.813	ug/L	98
31) Carbon tetrachloride	5.11	117	8454	2.890	ug/L	97
33) Benzene	5.37	78	24128	2.865	ug/L	100
34) Trichloroethene	6.17	95	7044	3.170	ug/L	92
35) Methylcyclohexane	6.40	83	8894	2.565	ug/L #	84
37) 1,2-Dichloropropane	6.41	63	6649	2.949	ug/L #	92
38) Bromodichloromethane	6.74	83	8864	3.041	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	9732	2.766	ug/L	92
40) 4-Methyl-2-pentanone	7.45	43	16751	5.381	ug/L #	95
42) Toluene	7.62	91	26052	2.876	ug/L	97
44) trans-1,3-Dichloropropene	7.86	75	10844	3.410	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	6671	3.117	ug/L	92
46) Tetrachloroethene	8.21	164	5263	2.901	ug/L	95
48) 2-Hexanone	8.35	43	16718	6.644	ug/L	93
49) Dibromochloromethane	8.46	129	6663	2.736	ug/L	91
50) 1,2-Dibromoethane	8.57	107	7164	3.022	ug/L #	95
51) Chlorobenzene	9.10	112	17171	2.896	ug/L	96
52) Ethylbenzene	9.23	91	25062	2.570	ug/L	99
53) m,p-Xylene	9.36	106	9634	2.573	ug/L	89
54) o-xylene	9.76	106	9013	2.482	ug/L	97
55) Styrene	9.78	104	13142	2.130	ug/L	94
56) Isopropylbenzene	10.15	105	21712	2.288	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.44	83	11372	2.946	ug/L #	91
59) 1,2,3-Trichloropropane	10.48	75	8627	2.899	ug/L	95
61) Bromoform	9.94	173	4904	2.839	ug/L	95
62) 1,3-Dichlorobenzene	11.40	146	12059	2.746	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	13214	2.896	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	14204	3.199	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	2248	2.740	ug/L #	73
67) 1,3,5-Trichlorobenzene	12.88	180	8798	2.483	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	5722	1.890	ug/L	97
69) Naphthalene	13.74	128	13367	1.539	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.98	180	6216	1.952	ug/L	92

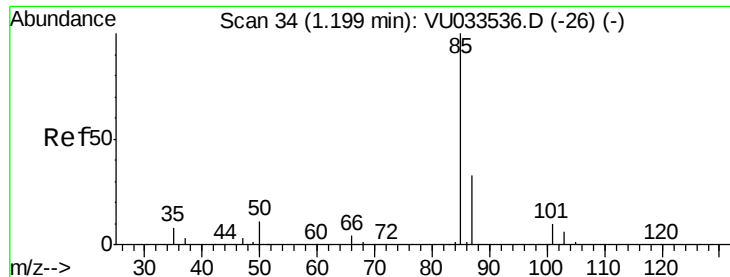
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.784 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

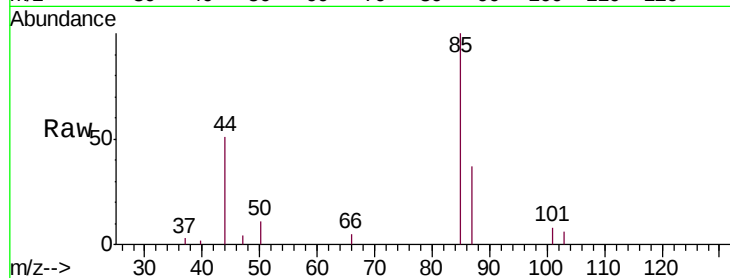
MDL02

Tgt Ion: 85 Resp: 7759

Ion Ratio Lower Upper

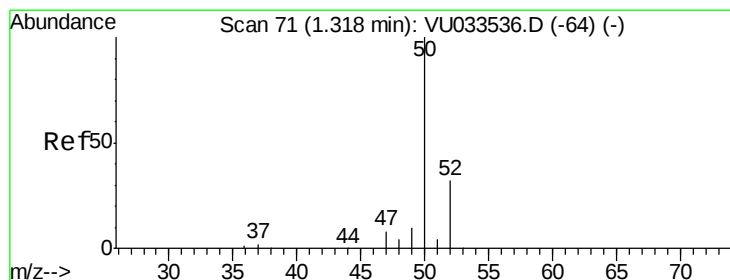
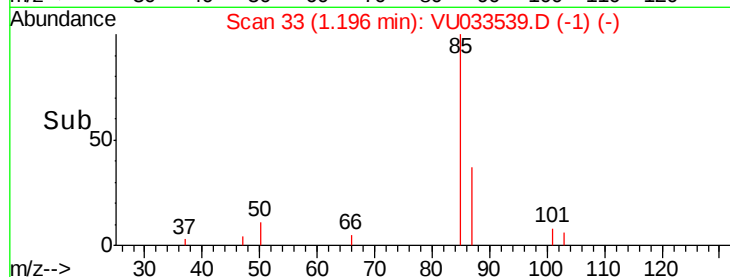
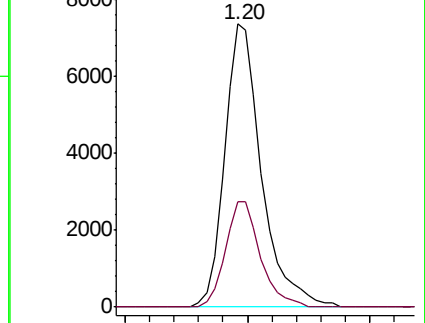
85 100

87 35.5 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033539.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033539.D (-1) (-)



#3

Chloromethane

Concen: 2.987 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033539.D

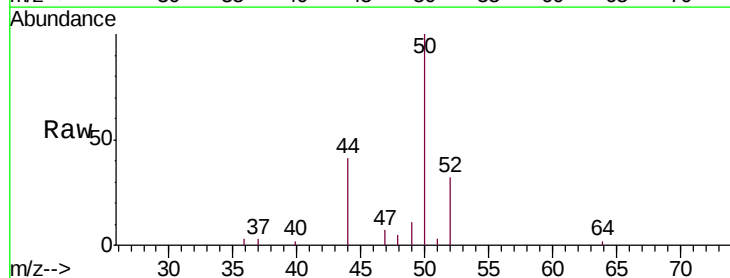
Acq: 01 Aug 2019 10:31

Tgt Ion: 50 Resp: 8387

Ion Ratio Lower Upper

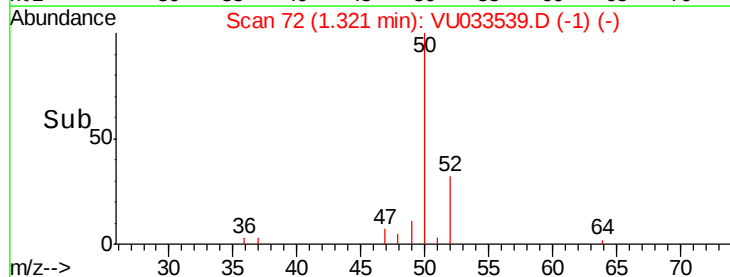
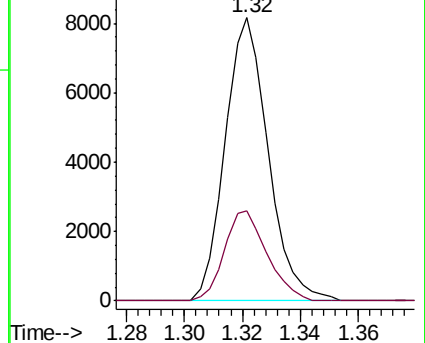
50 100

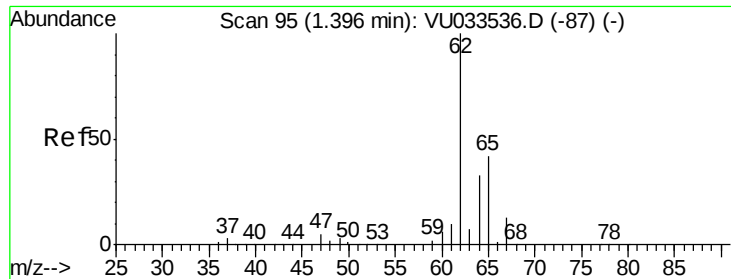
52 31.8 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033539.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033539.D (-1) (-)





#5

Vinyl chloride

Concen: 2.858 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

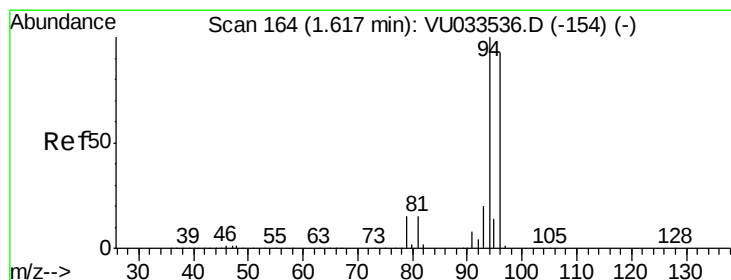
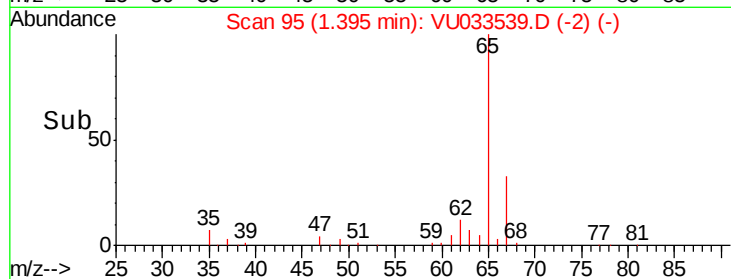
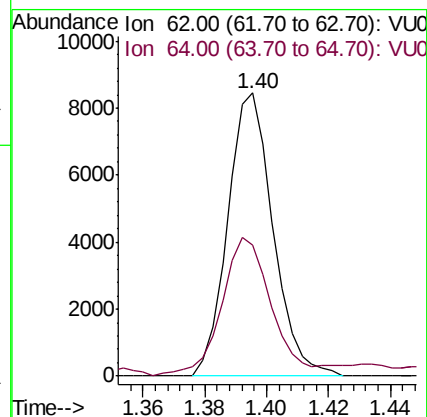
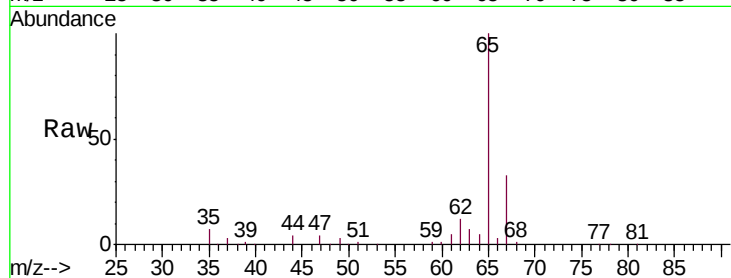
MDL02

Tgt Ion: 62 Resp: 8603

Ion Ratio Lower Upper

62 100

64 46.3 23.4 43.4#



#6

Bromomethane

Concen: 2.231 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033539.D

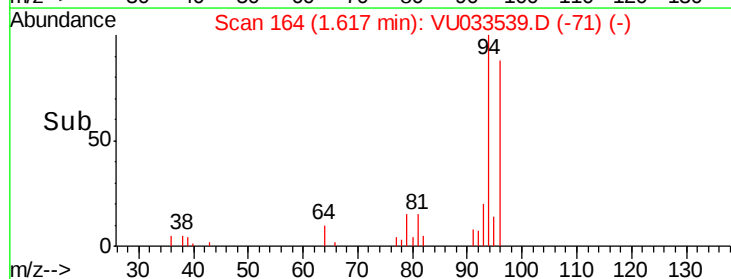
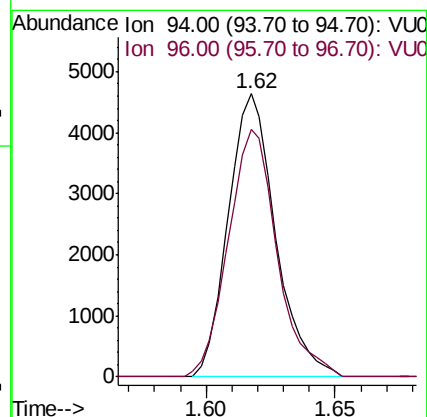
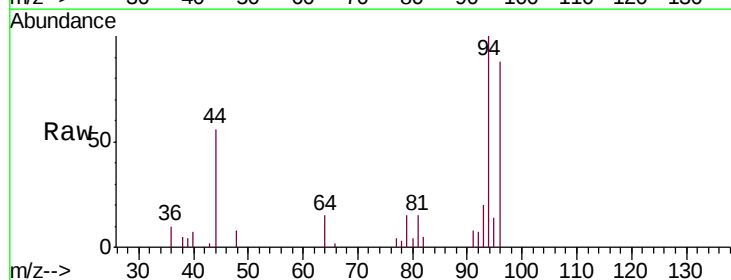
Acq: 01 Aug 2019 10:31

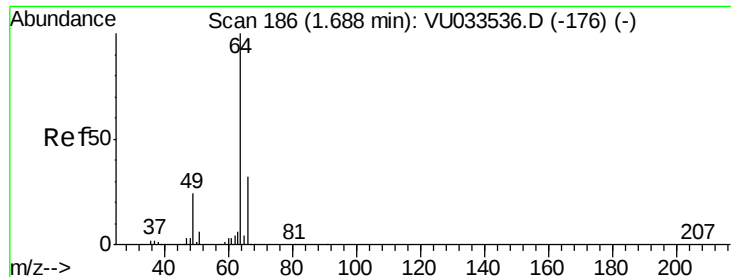
Tgt Ion: 94 Resp: 5925

Ion Ratio Lower Upper

94 100

96 87.6 64.4 119.6





#8

Chloroethane

Concen: 3.099 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

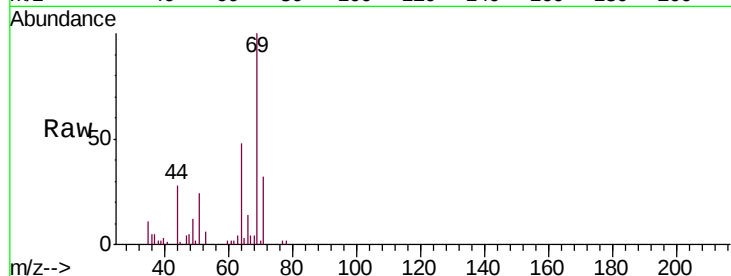
MDL02

Tgt Ion: 64 Resp: 5668

Ion Ratio Lower Upper

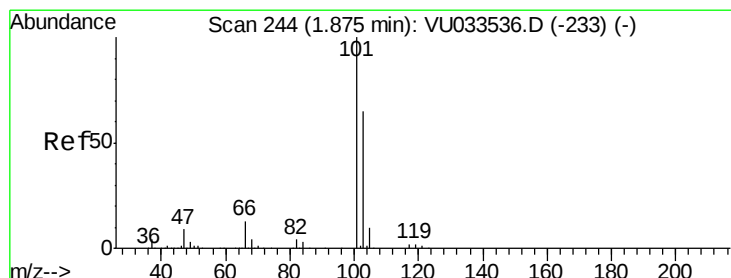
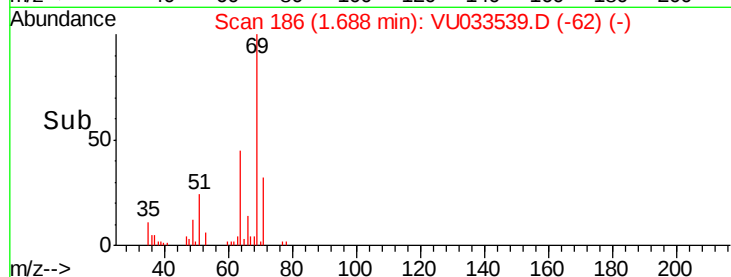
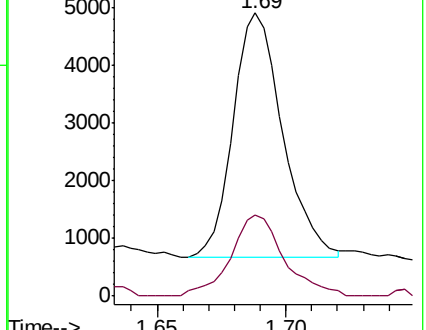
64 100

66 28.8 21.1 39.3



Abundance Ion 64.00 (63.70 to 64.70): VU033539.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033539.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 2.937 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033539.D

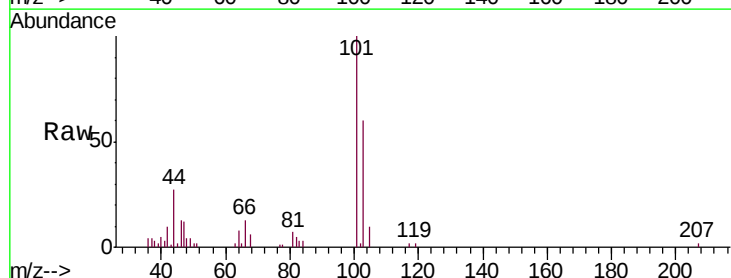
Acq: 01 Aug 2019 10:31

Tgt Ion: 101 Resp: 11564

Ion Ratio Lower Upper

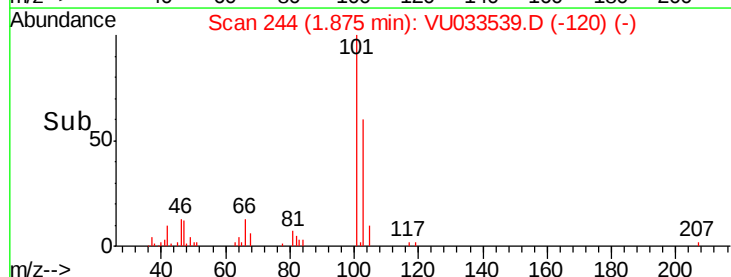
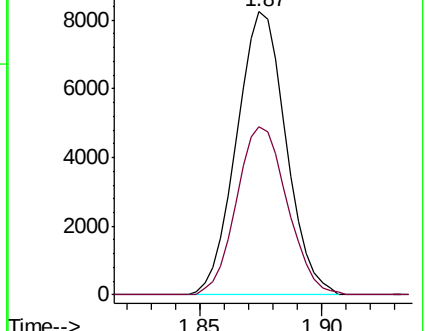
101 100

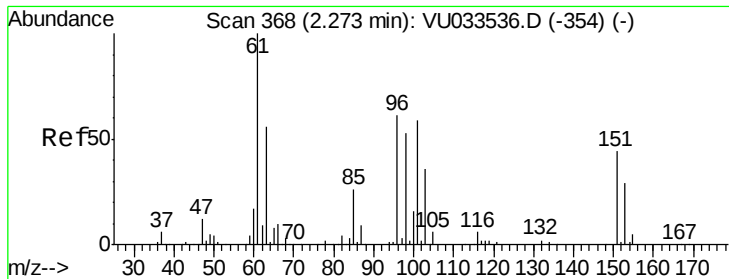
103 61.0 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU033539.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033539.D (-233) (-)





#10

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

Concen: 3.530 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033539.D

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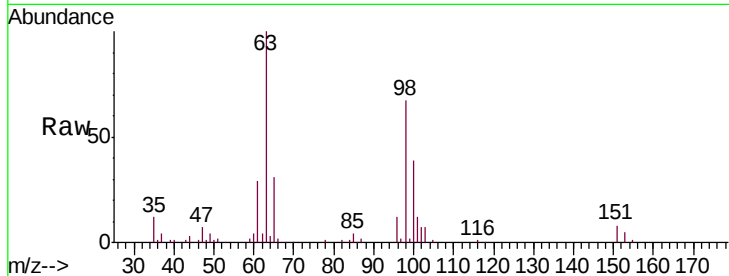
Tgt Ion: 101 Resp: 7046

Ion Ratio Lower Upper

101 100

85 16.1 35.8 53.8#

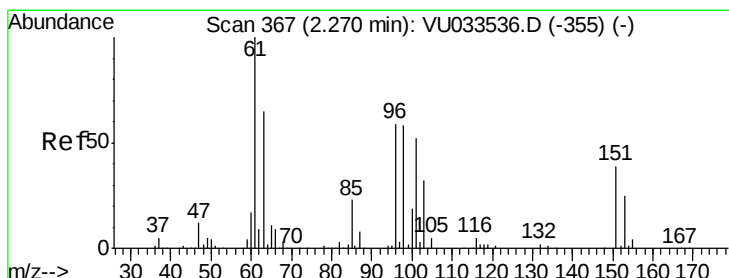
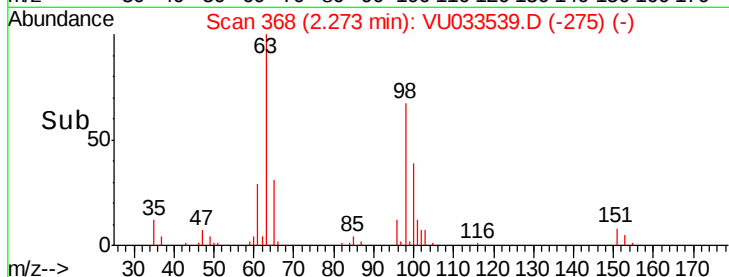
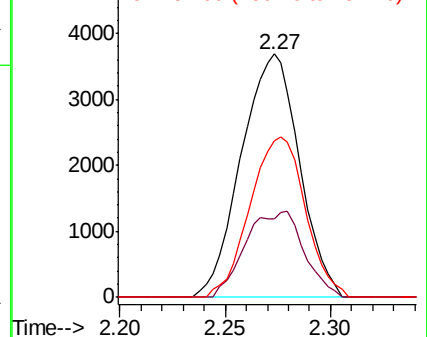
151 62.7 60.1 90.1



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: 3.460 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

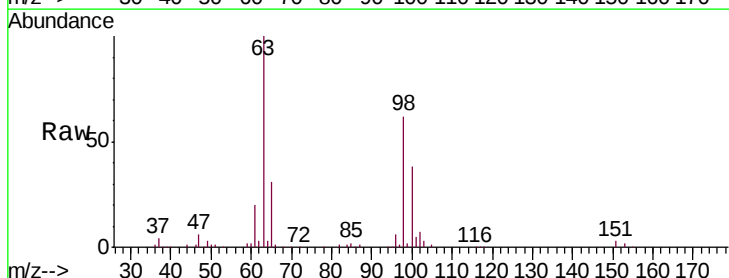
Tgt Ion: 96 Resp: 6622

Ion Ratio Lower Upper

96 100

61 317.2 119.3 221.5#

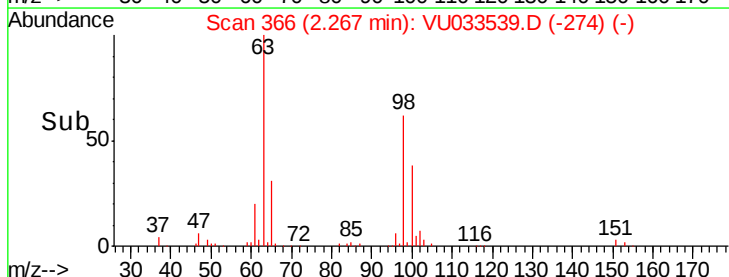
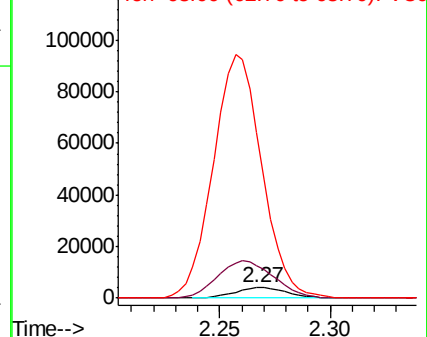
63 1604.4 86.6 160.8#

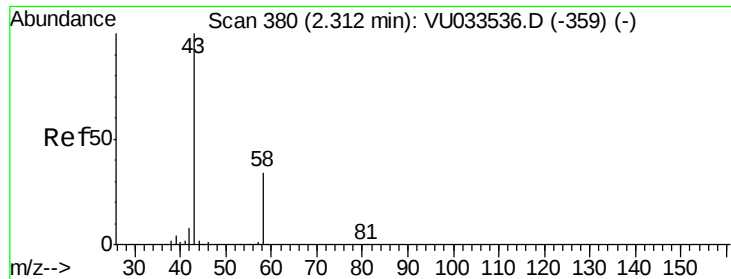


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.617 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

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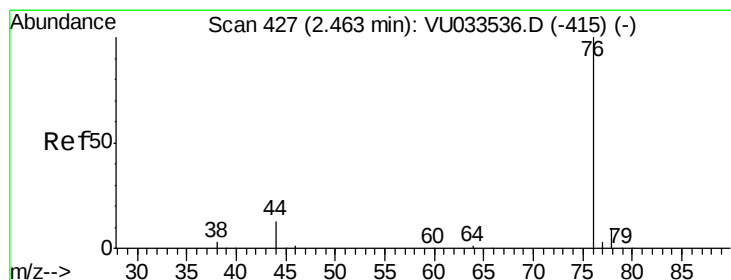
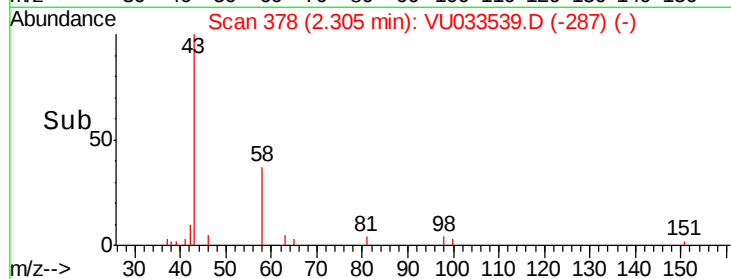
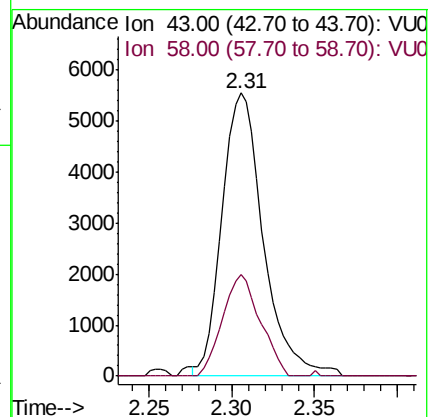
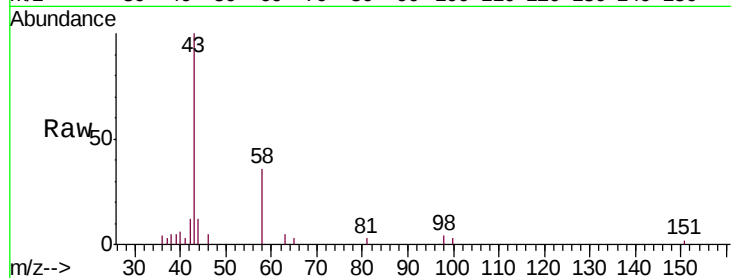
MDL02

Tgt Ion: 43 Resp: 9636

Ion Ratio Lower Upper

43 100

58 32.6 0.0 66.2



#14

Carbon disulfide

Concen: 2.935 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033539.D

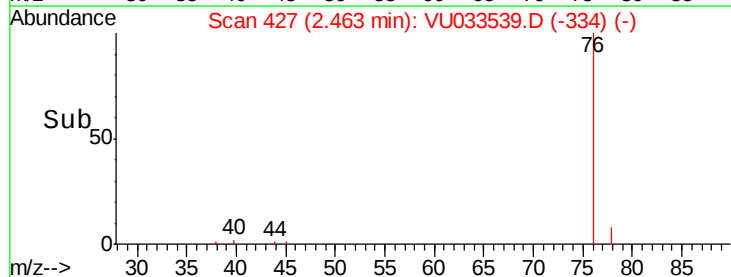
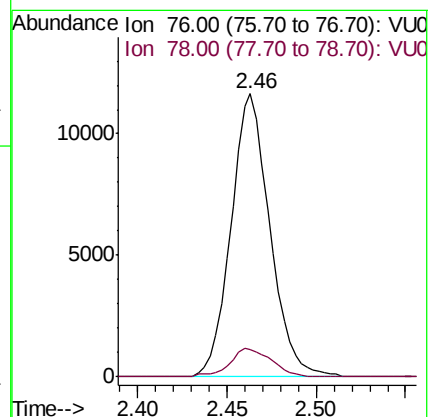
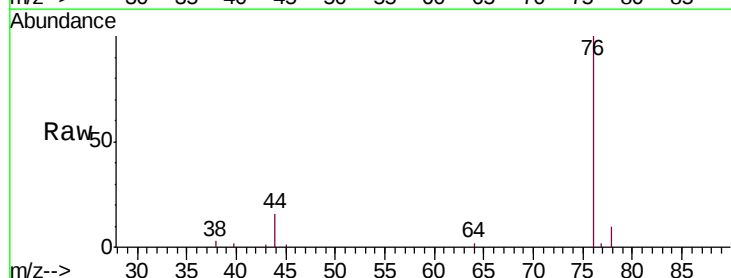
Acq: 01 Aug 2019 10:31

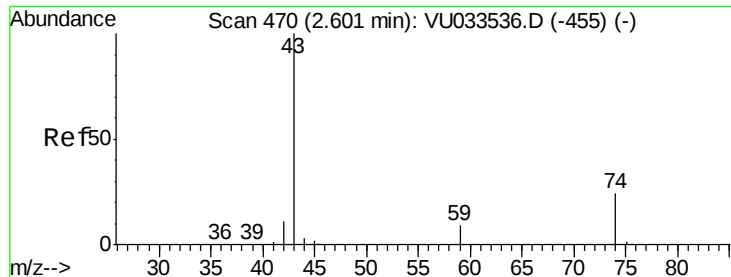
Tgt Ion: 76 Resp: 17623

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.0





#15

Methyl Acetate

Concen: 3.038 ug/L

RT: 2.60 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampled :

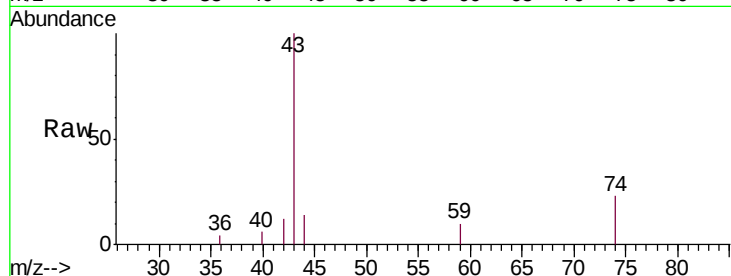
MDL02

Tgt Ion: 43 Resp: 7042

Ion Ratio Lower Upper

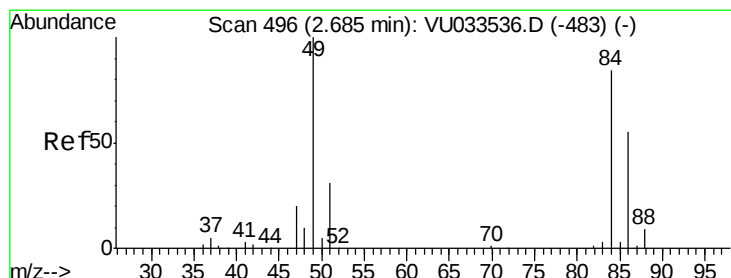
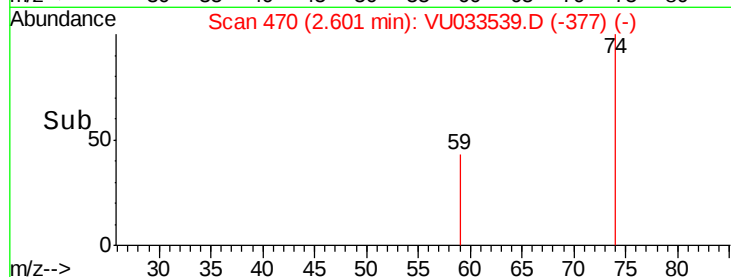
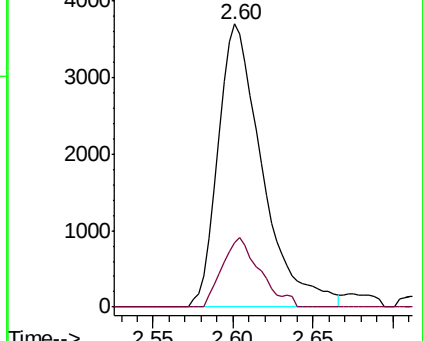
43 100

74 20.2 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VU033539.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU033539.D (-377) (-)



#16

Methylene chloride

Concen: 3.106 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

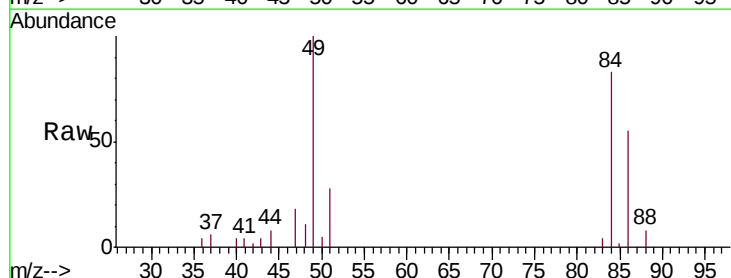
Tgt Ion: 84 Resp: 6791

Ion Ratio Lower Upper

84 100

86 66.1 45.7 84.9

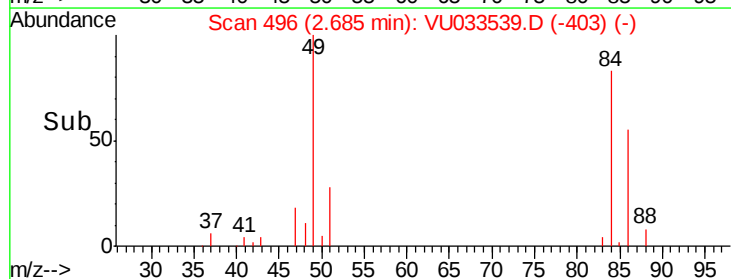
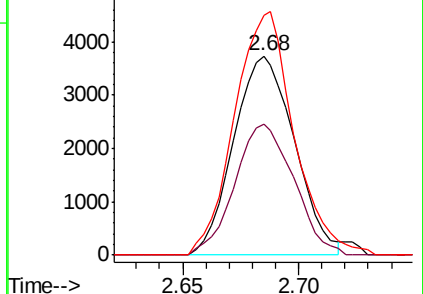
49 120.6 85.0 158.0

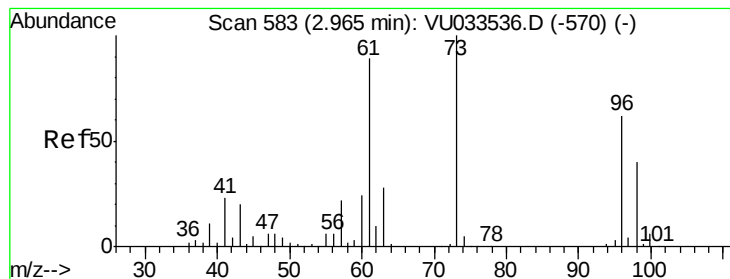


Abundance Ion 84.00 (83.70 to 84.70): VU033539.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU033539.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU033539.D (-403) (-)





#17

trans-1,2-Dichloroethene

Concen: 2.839 ug/L

RT: 2.97 min Scan# 585

Delta R.T. 0.01 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

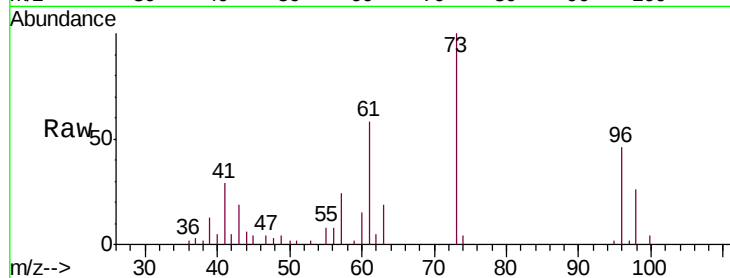
Tgt Ion: 96 Resp: 5694

Ion Ratio Lower Upper

96 100

61 126.0 98.3 182.5

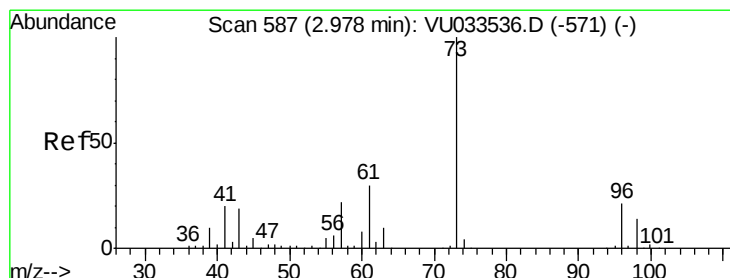
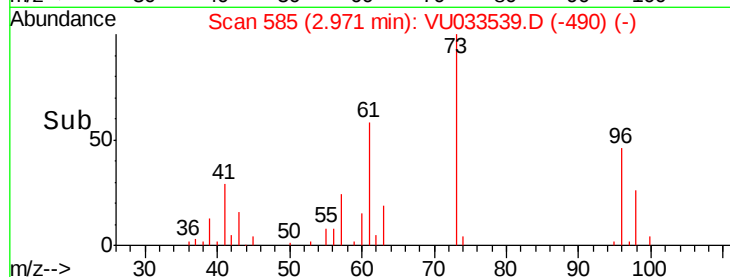
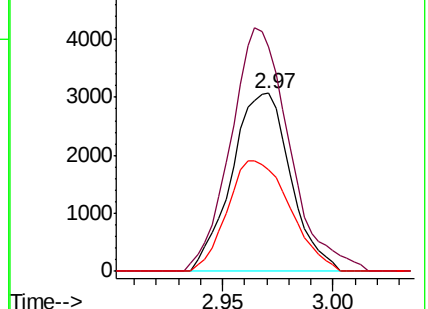
98 57.1 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU033539.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033539.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033539.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 2.637 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

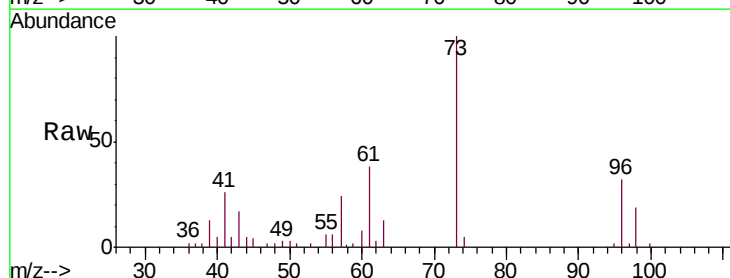
Tgt Ion: 73 Resp: 16126

Ion Ratio Lower Upper

73 100

43 10.9 15.4 23.2#

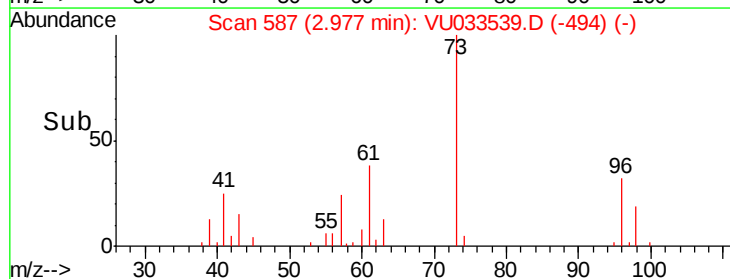
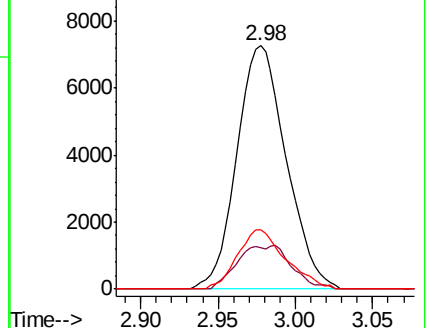
57 23.8 17.4 26.2

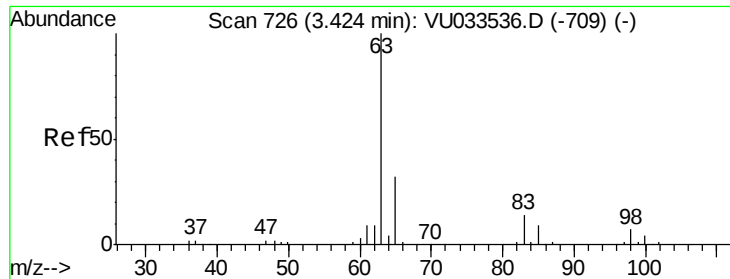


Abundance Ion 73.00 (72.70 to 73.70): VU033539.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033539.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033539.D (-494) (-)

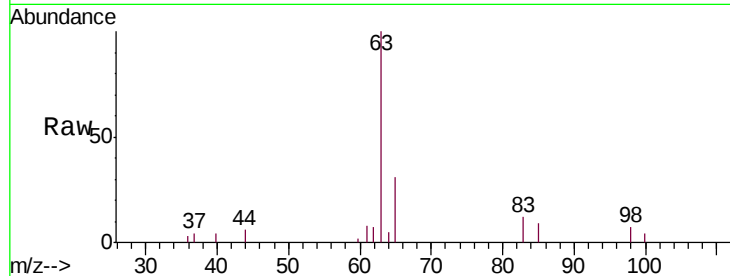




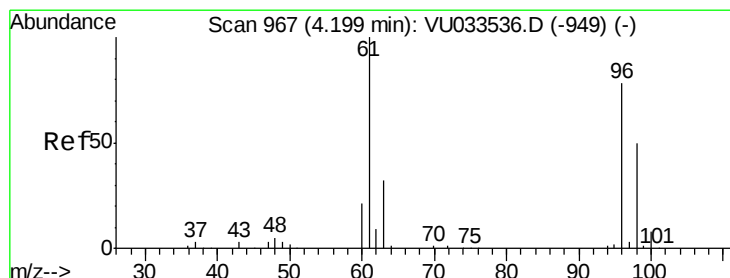
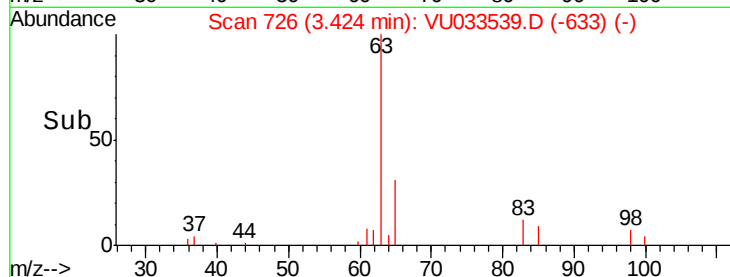
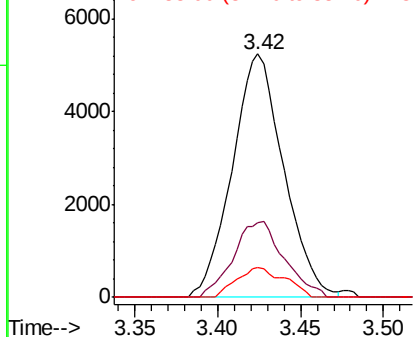
#19
 1,1-Dichloroethane
 Concen: 2.999 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tgt Ion: 63 Resp: 11290
 Ion Ratio Lower Upper
 63 100
 65 30.6 22.0 40.8
 83 12.5 9.5 17.7

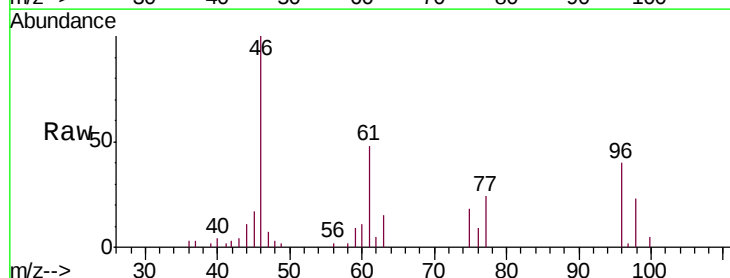


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

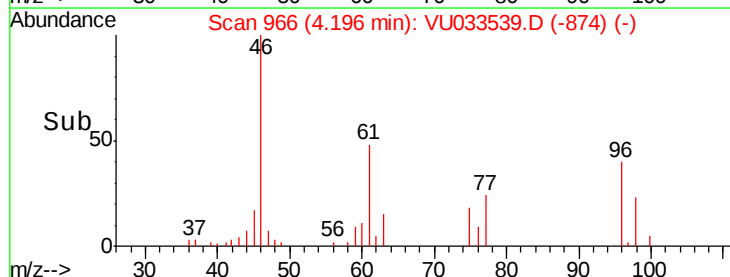
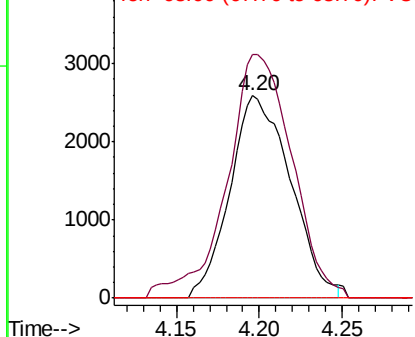


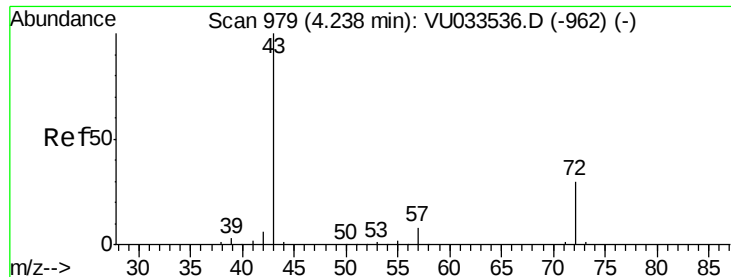
#20
 cis-1,2-Dichloroethene
 Concen: 2.932 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion: 96 Resp: 6599
 Ion Ratio Lower Upper
 96 100
 61 120.4 91.3 169.6
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 5.308 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.02 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampled :

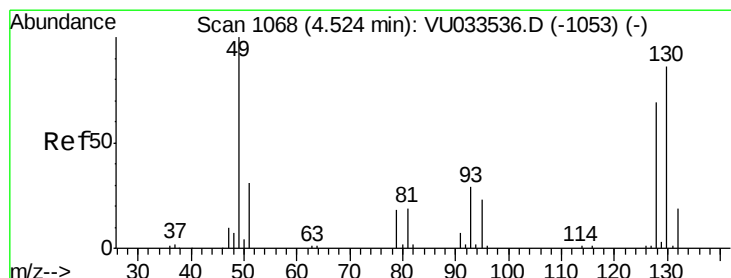
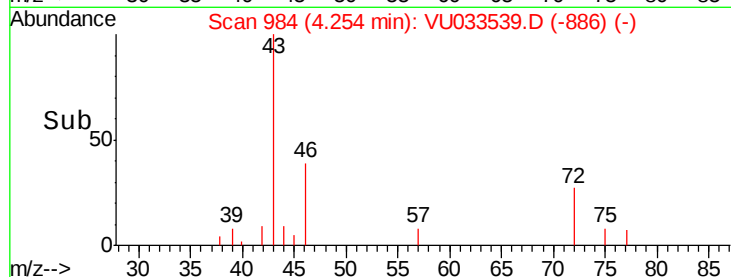
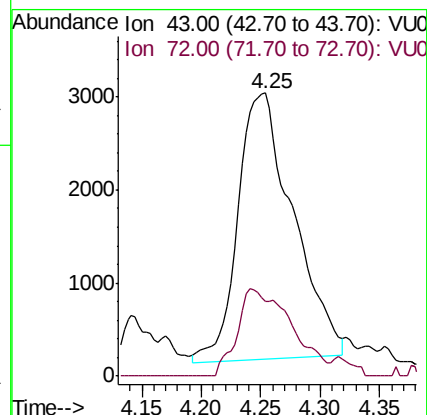
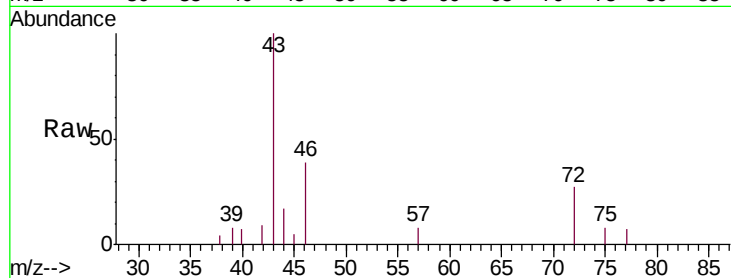
MDL02

Tgt Ion: 43 Resp: 9227

Ion Ratio Lower Upper

43 100

72 16.1 14.2 42.6



#23

Bromochloromethane

Concen: 3.104 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Tgt Ion: 128 Resp: 3645

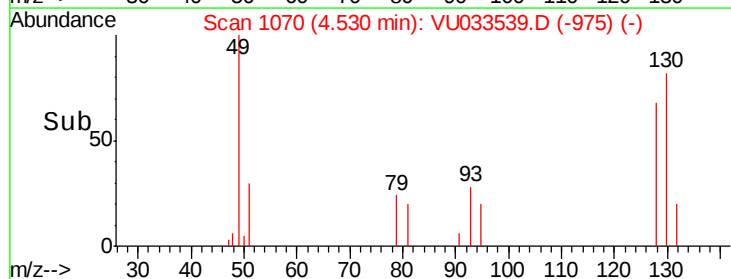
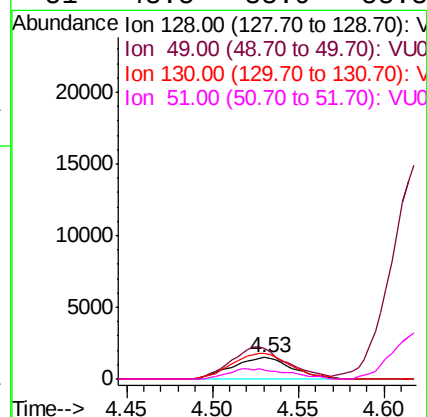
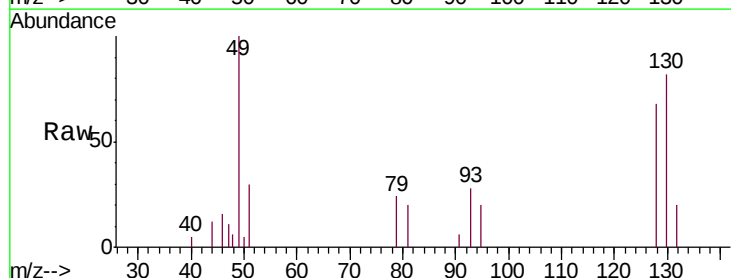
Ion Ratio Lower Upper

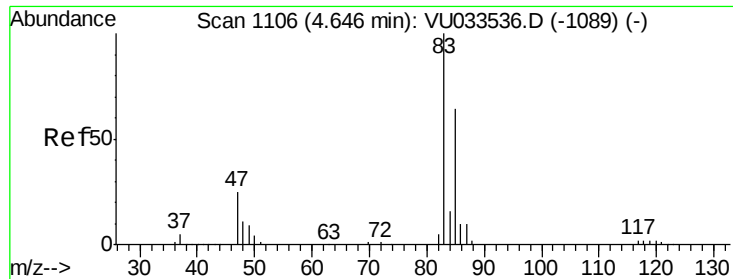
128 100

49 147.3 108.4 201.2

130 120.2 89.7 166.5

51 43.5 38.9 58.3

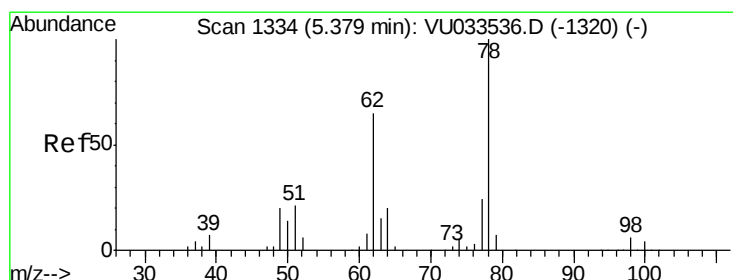
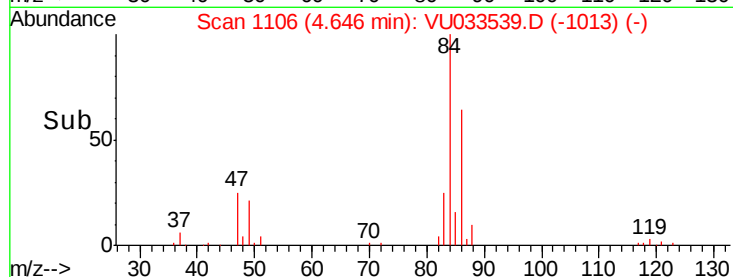
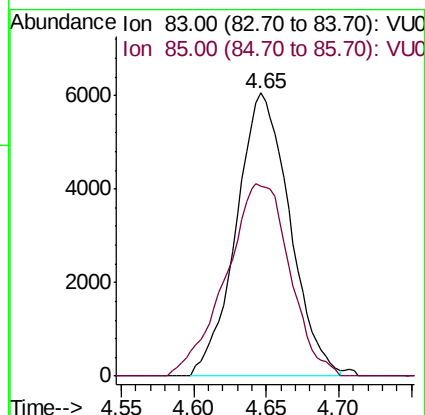
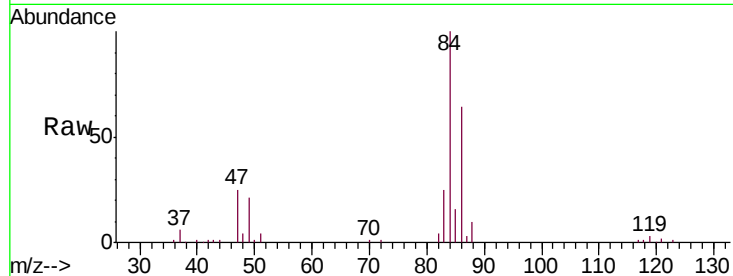




#25
Chloroform
Concen: 3.917 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

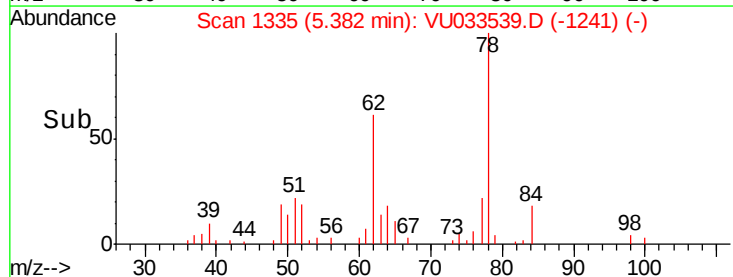
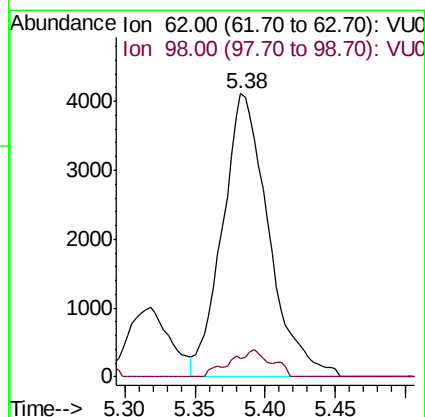
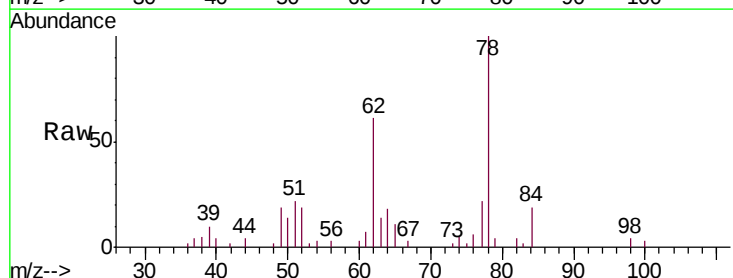
Instrument :
MSVOA_U
ClientSampleId :
MDL02

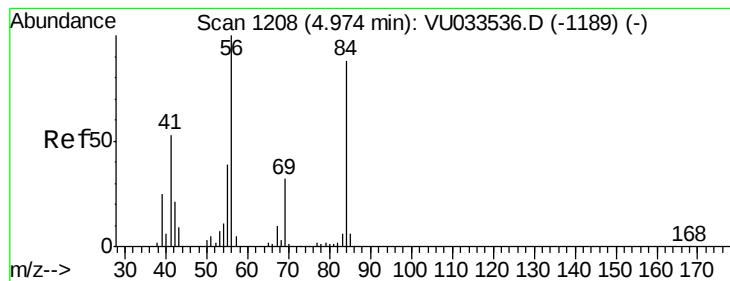
Tgt Ion: 83 Resp: 15515
Ion Ratio Lower Upper
83 100
85 67.1 45.6 84.8



#27
1,2-Dichloroethane
Concen: 3.090 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion: 62 Resp: 9425
Ion Ratio Lower Upper
62 100
98 6.7 7.2 10.8#





#29

Cyclohexane

Concen: 2.407 ug/L

RT: 4.97 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

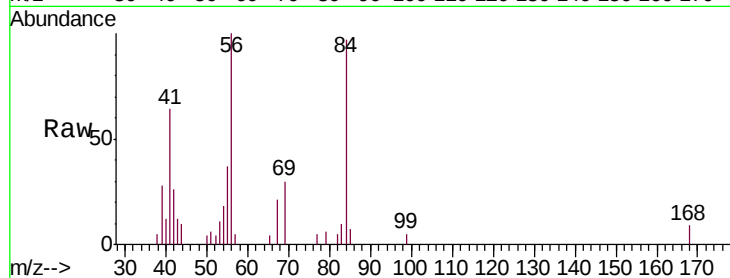
Tgt Ion: 56 Resp: 7667

Ion Ratio Lower Upper

56 100

69 28.6 25.0 37.6

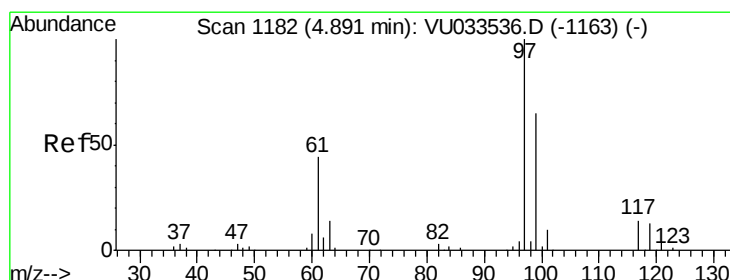
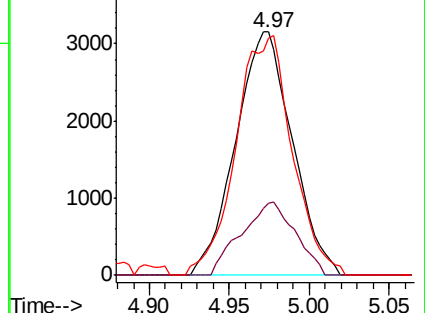
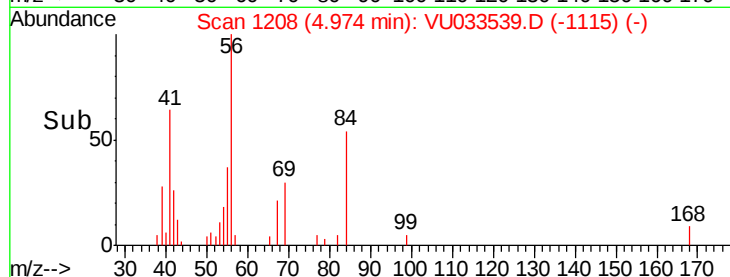
84 43.0 71.6 107.4#



Abundance Ion 56.00 (55.70 to 56.70): VU033539.D (-1115) (-)

Ion 69.00 (68.70 to 69.70): VU033539.D (-1115) (-)

Ion 84.00 (83.70 to 84.70): VU033539.D (-1115) (-)



#30

1,1,1-Trichloroethane

Concen: 2.813 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

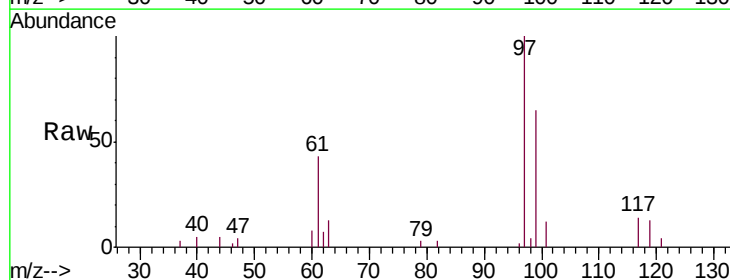
Tgt Ion: 97 Resp: 9451

Ion Ratio Lower Upper

97 100

99 62.7 51.1 76.7

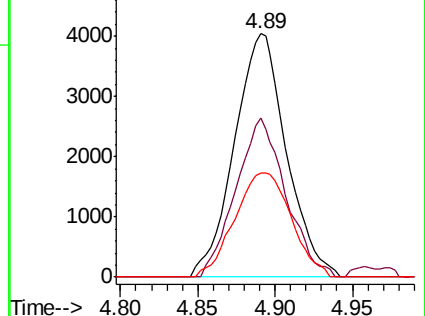
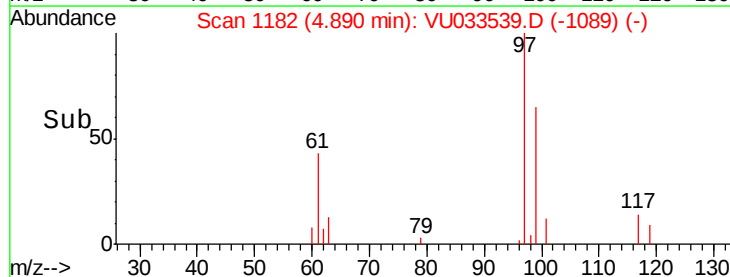
61 46.6 35.5 53.3

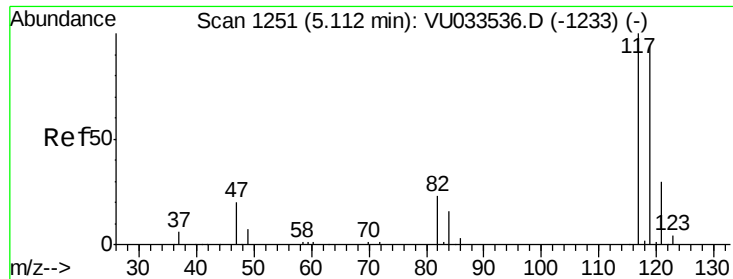


Abundance Ion 97.00 (96.70 to 97.70): VU033539.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033539.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033539.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 2.890 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

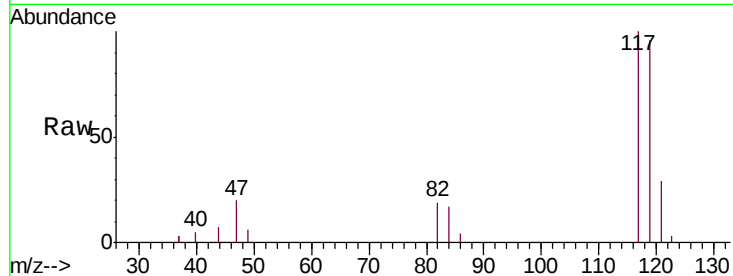
MDL02

Tgt Ion:117 Resp: 8454

Ion Ratio Lower Upper

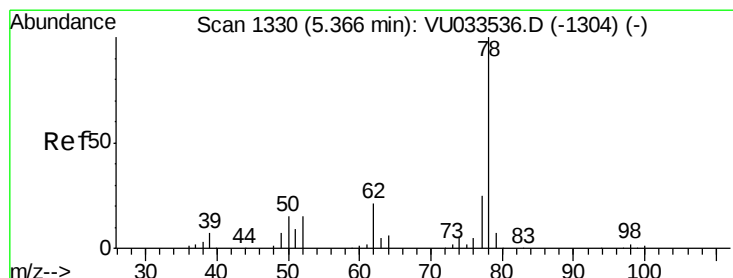
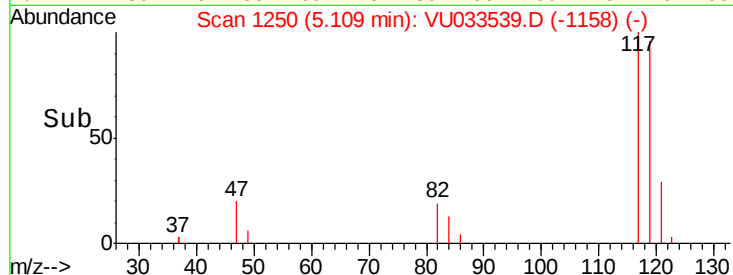
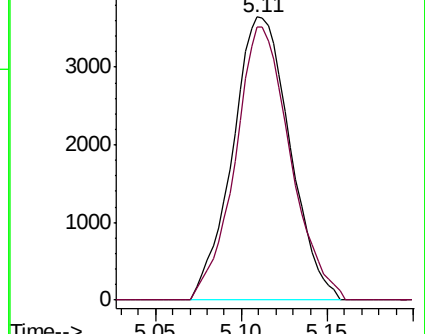
117 100

119 93.0 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: 2.865 ug/L

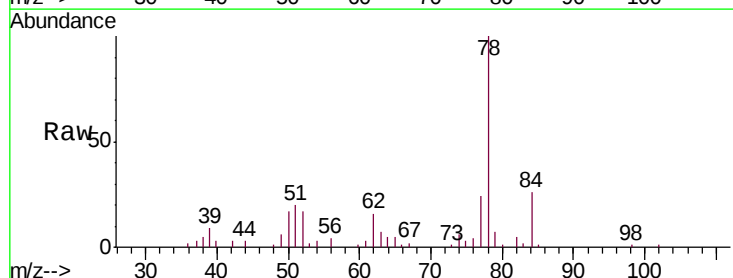
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

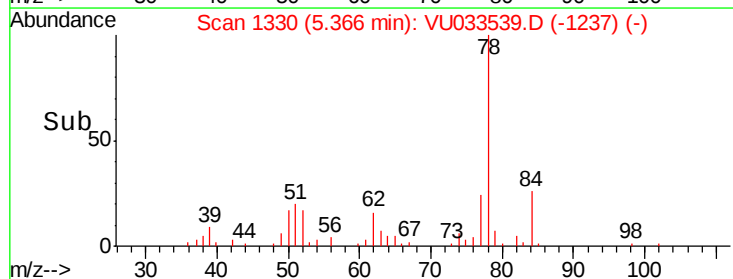
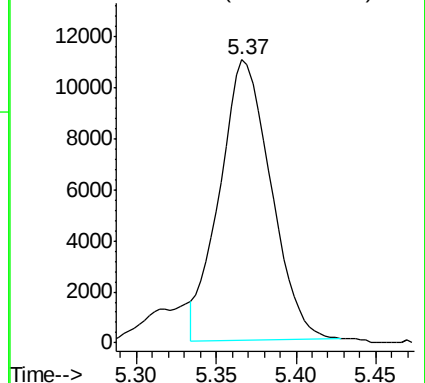
Lab File: VU033539.D

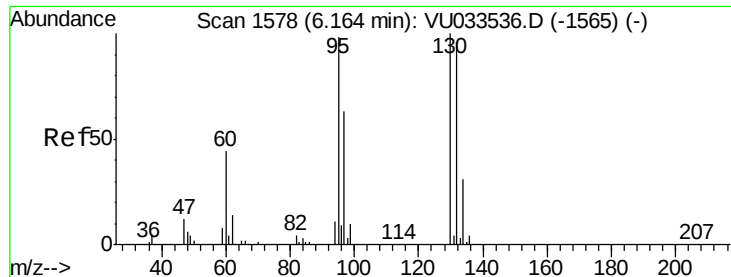
Acq: 01 Aug 2019 10:31

Tgt Ion: 78 Resp: 24128



Abundance Ion 78.00 (77.70 to 78.70): VU0

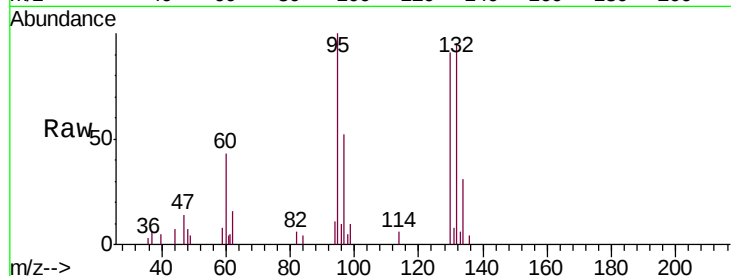




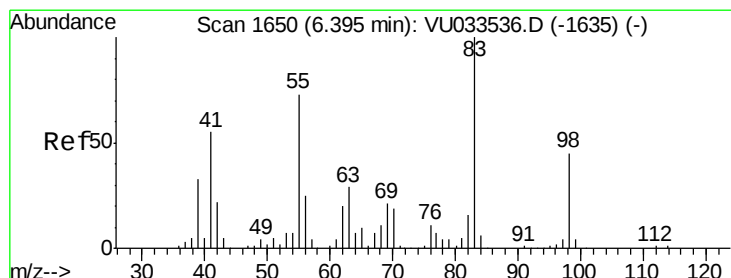
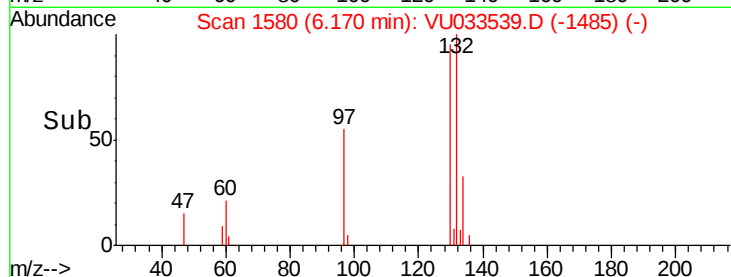
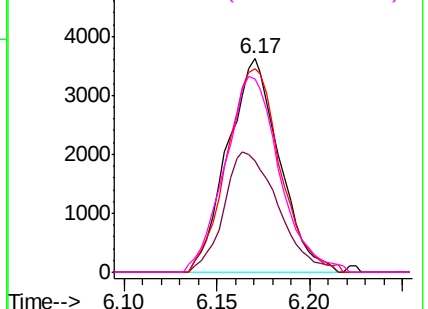
#34
 Trichloroethene
 Concen: 3.170 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tgt Ion:	95	Resp:	7044
Ion	Ratio	Lower	Upper
95	100		
97	52.2	44.7	83.1
132	95.4	66.8	124.0
130	90.7	71.6	133.0

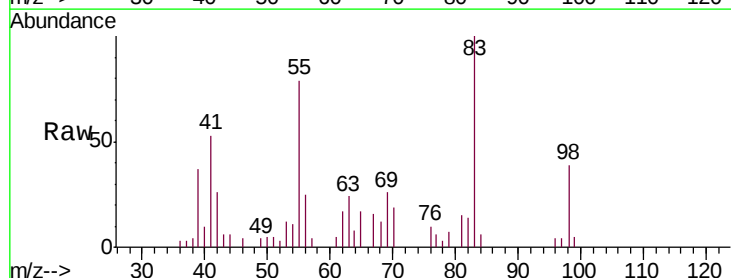


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

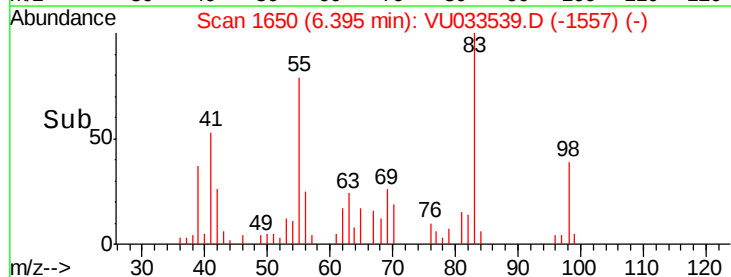
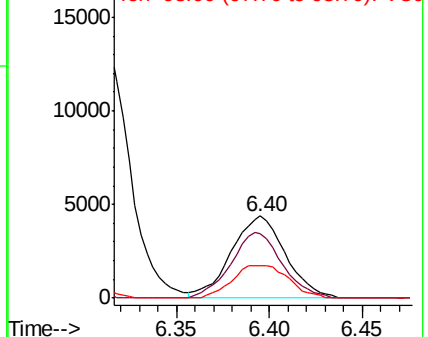


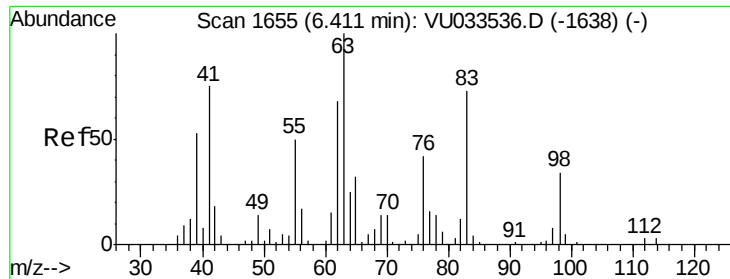
#35
 Methylcyclohexane
 Concen: 2.565 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion:	83	Resp:	8894
Ion	Ratio	Lower	Upper
83	100		
55	75.4	60.2	90.4
98	18.5	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

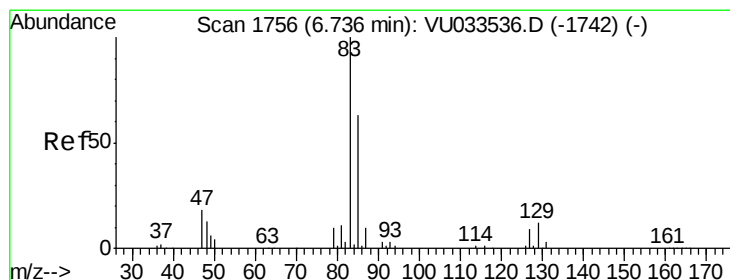
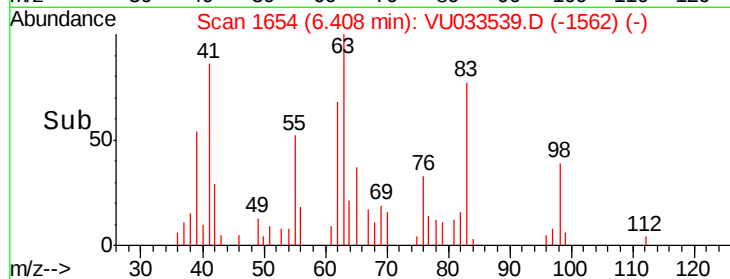
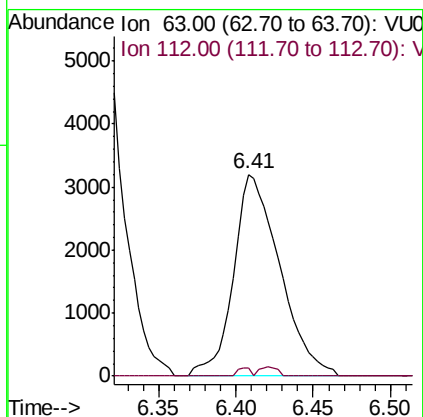
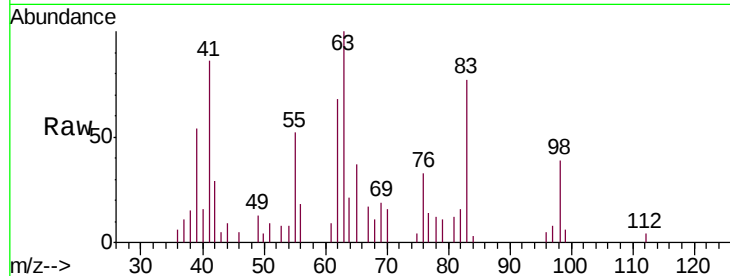




#37
 1,2-Dichloropropane
 Concen: 2.949 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

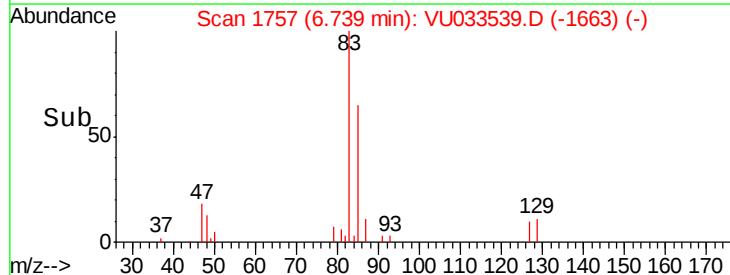
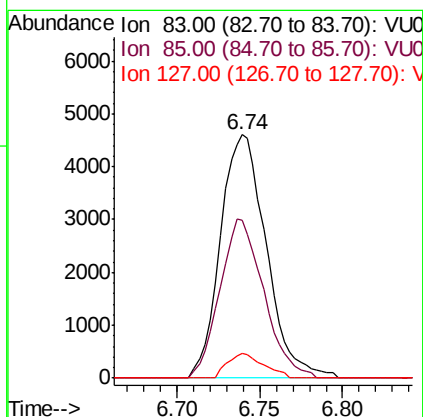
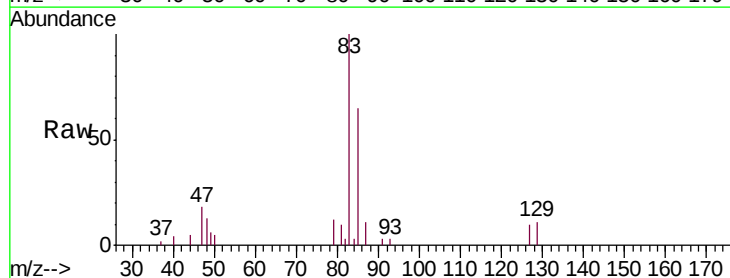
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL02

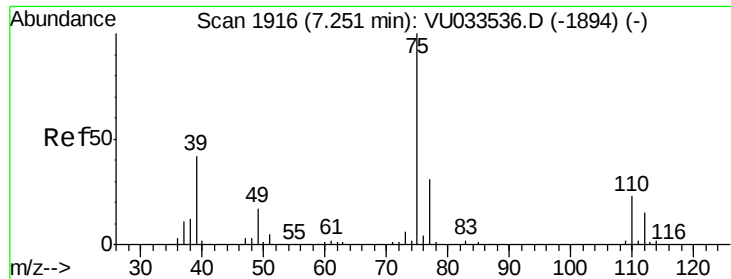
Tgt Ion: 63 Resp: 6649
 Ion Ratio Lower Upper
 63 100
 112 1.0 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 3.041 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion: 83 Resp: 8864
 Ion Ratio Lower Upper
 83 100
 85 64.6 45.1 83.9
 127 10.3 7.2 10.8

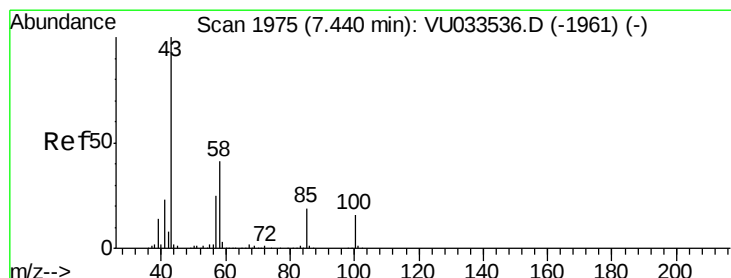
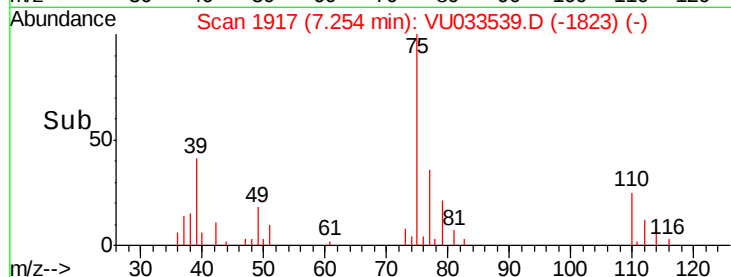
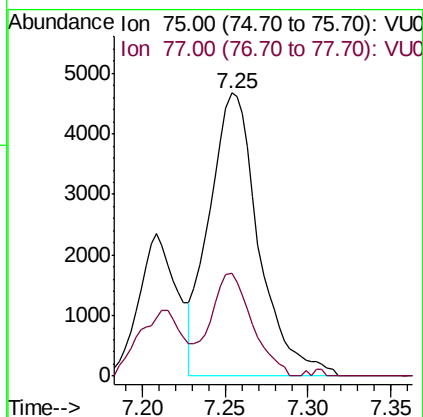
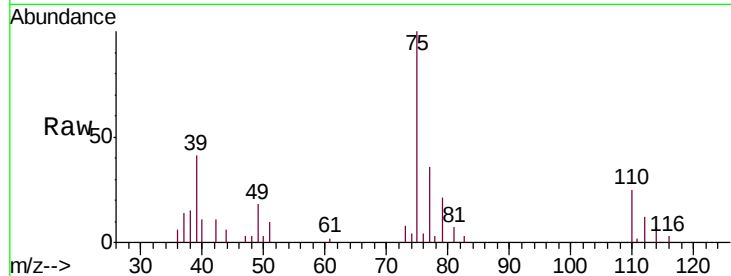




#39
 cis-1,3-Dichloropropene
 Concen: 2.766 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

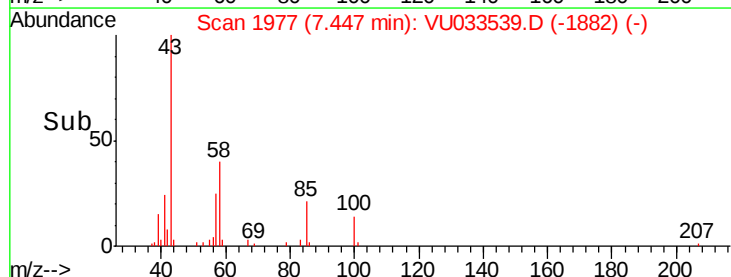
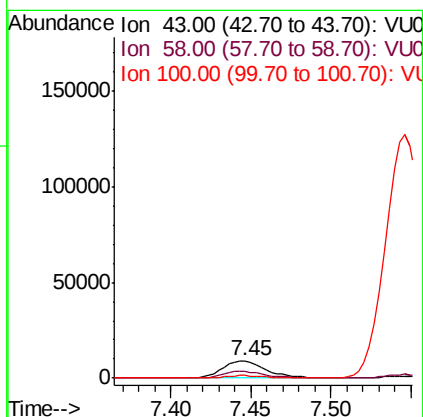
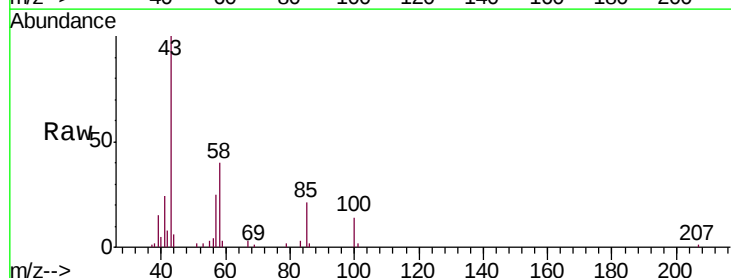
Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

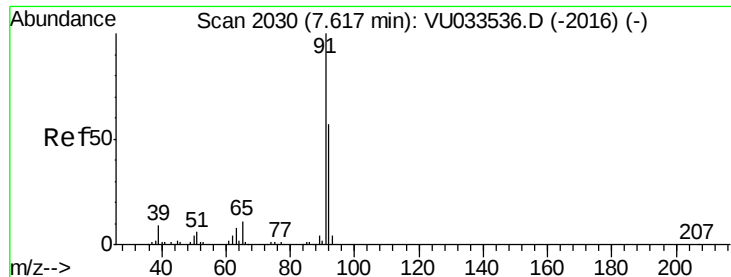
Tgt Ion: 75 Resp: 9732
 Ion Ratio Lower Upper
 75 100
 77 36.2 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 5.381 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion: 43 Resp: 16751
 Ion Ratio Lower Upper
 43 100
 58 38.6 32.8 49.2
 100 12.5 12.9 19.3#





#42

Toluene

Concen: 2.876 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

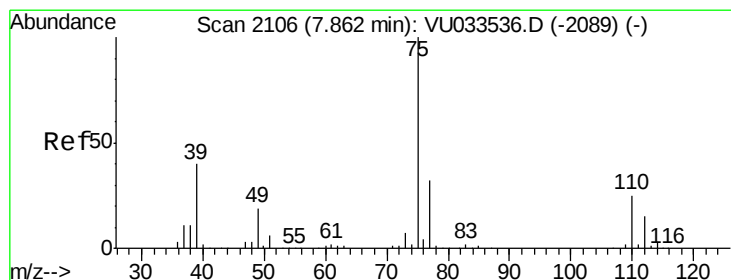
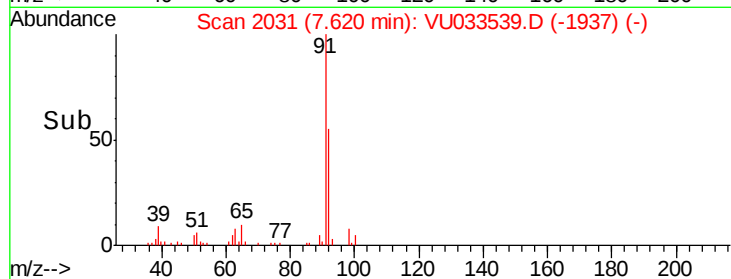
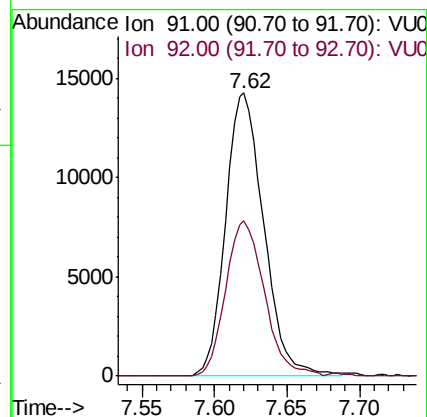
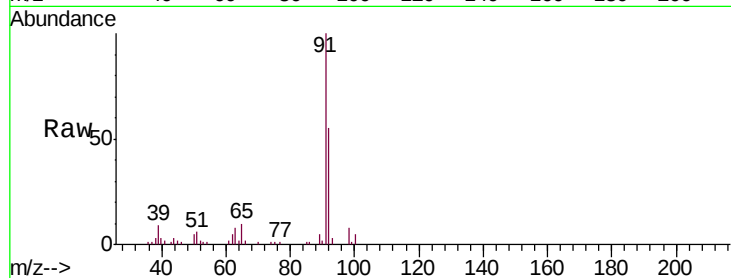
MDL02

Tgt Ion: 91 Resp: 26052

Ion Ratio Lower Upper

91 100

92 54.9 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 3.410 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033539.D

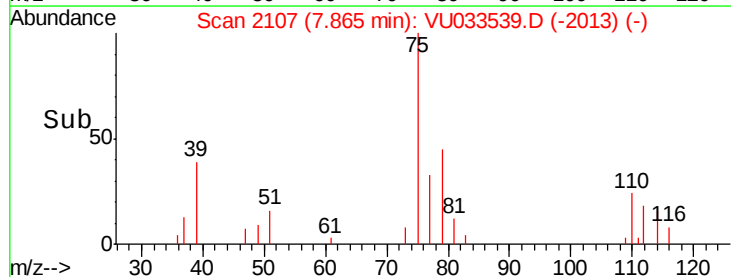
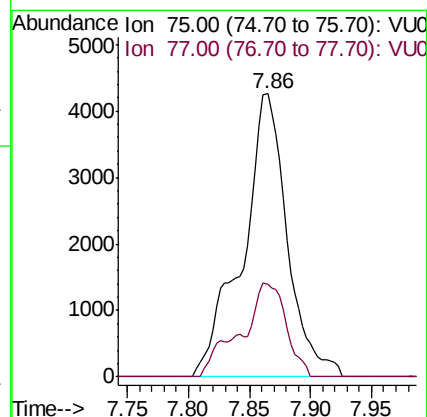
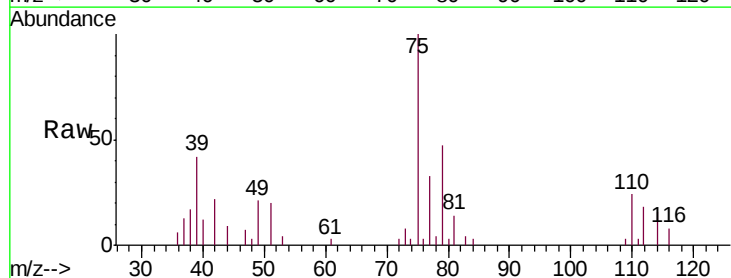
Acq: 01 Aug 2019 10:31

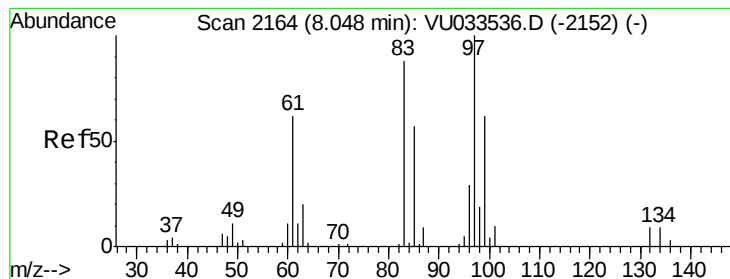
Tgt Ion: 75 Resp: 10844

Ion Ratio Lower Upper

75 100

77 32.8 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 3.117 ug/L

RT: 8.05 min Scan# 2166

Delta R.T. 0.01 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tgt Ion: 97 Resp: 6671

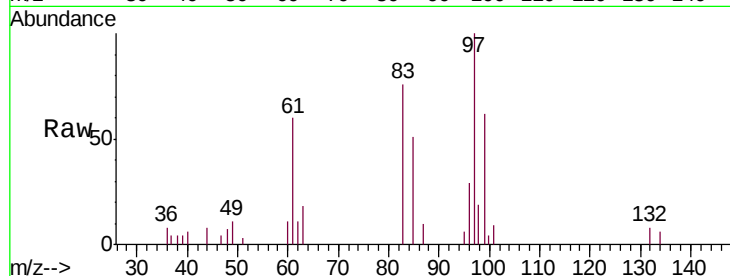
Ion Ratio Lower Upper

97 100

99 61.8 44.4 82.4

83 76.4 61.5 114.1

85 51.3 40.4 75.0

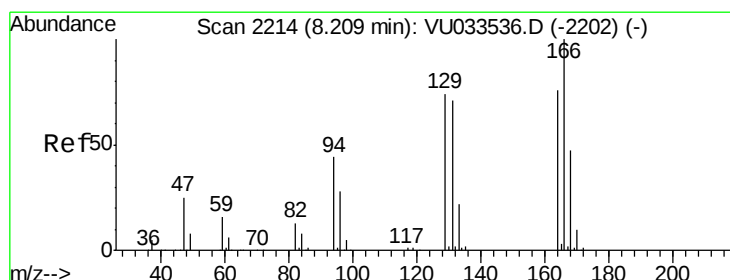
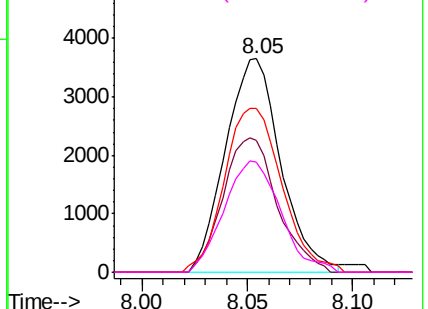
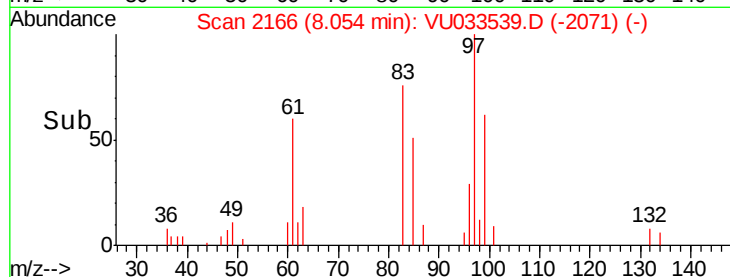


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 2.901 ug/L

RT: 8.21 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Tgt Ion: 164 Resp: 5263

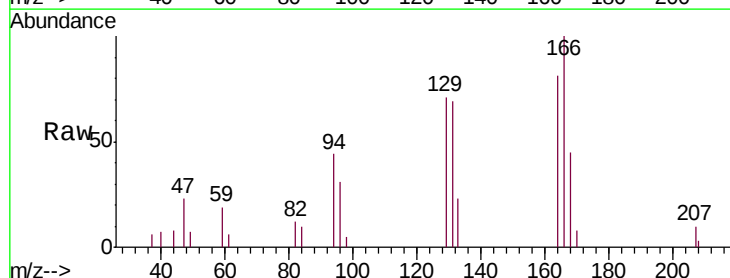
Ion Ratio Lower Upper

164 100

129 87.6 65.5 121.7

131 84.4 63.3 117.7

166 123.1 88.2 163.8

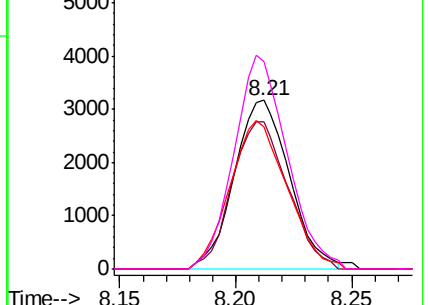
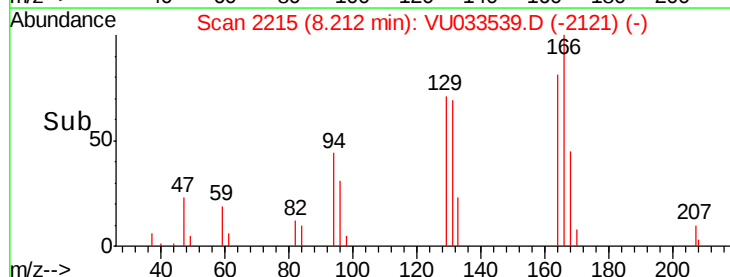


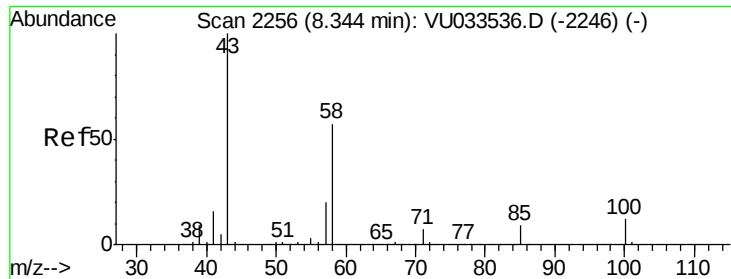
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

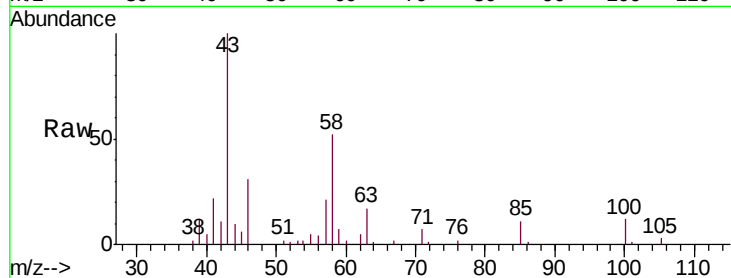




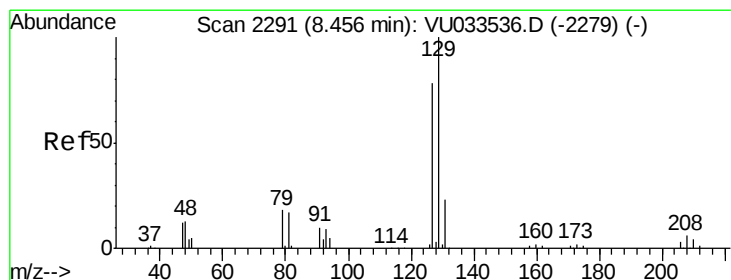
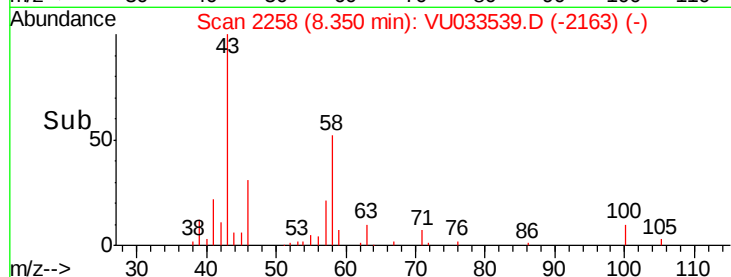
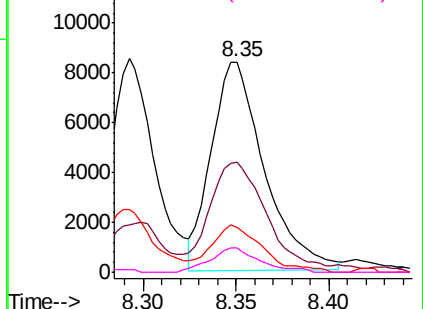
#48
2-Hexanone
Concen: 6.644 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tgt Ion: 43 Resp: 16718
Ion Ratio Lower Upper
43 100
58 51.6 45.8 68.6
57 16.6 15.8 23.6
100 10.8 9.4 14.2

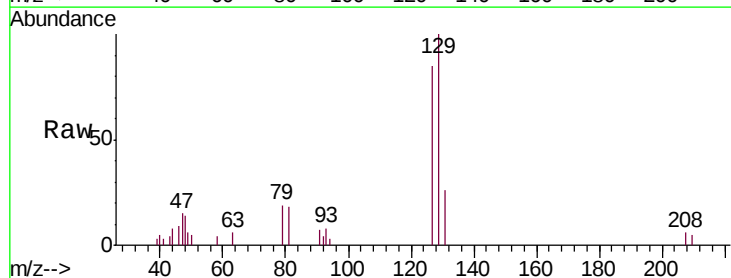


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

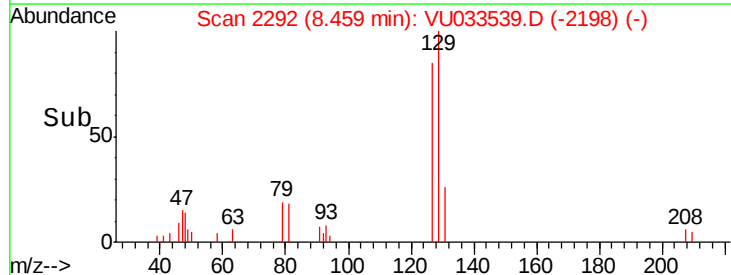
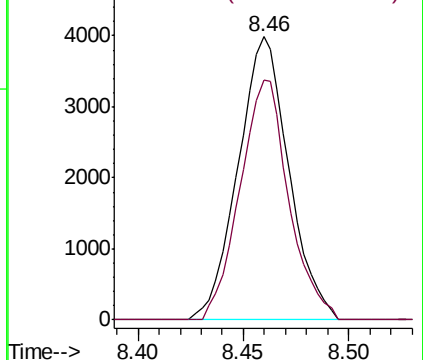


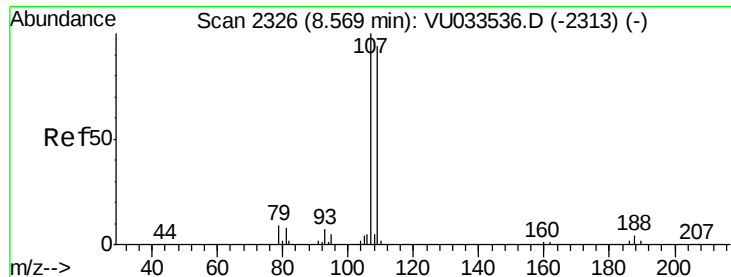
#49
Dibromochloromethane
Concen: 2.736 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion: 129 Resp: 6663
Ion Ratio Lower Upper
129 100
127 84.7 53.8 99.8



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





#50

1,2-Dibromoethane

Concen: 3.022 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

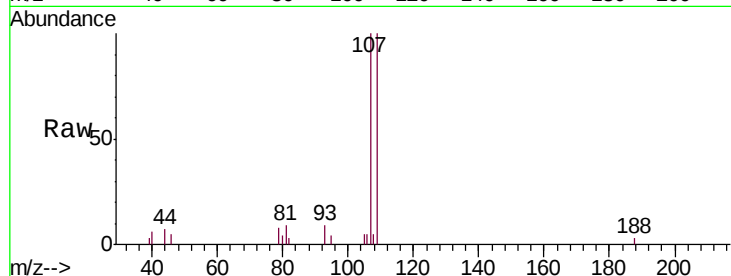
Tgt Ion:107 Resp: 7164

Ion Ratio Lower Upper

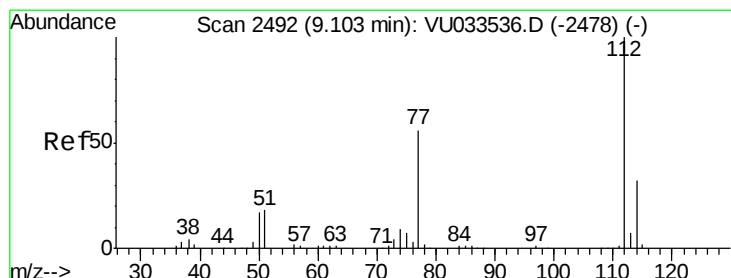
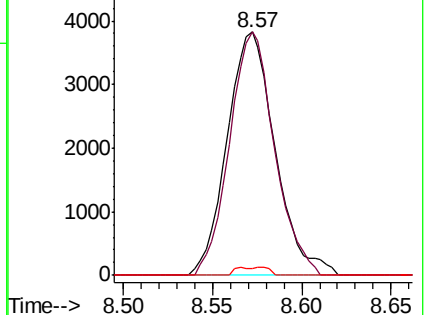
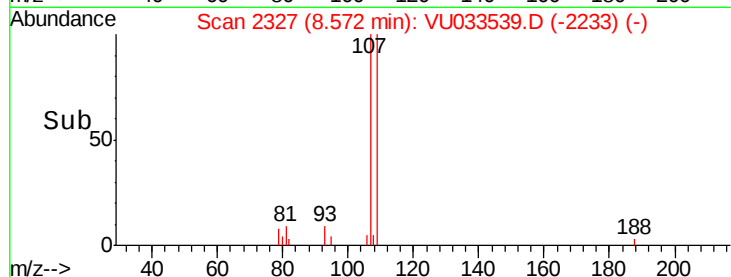
107 100

109 100.1 66.8 124.0

188 2.7 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: 2.896 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

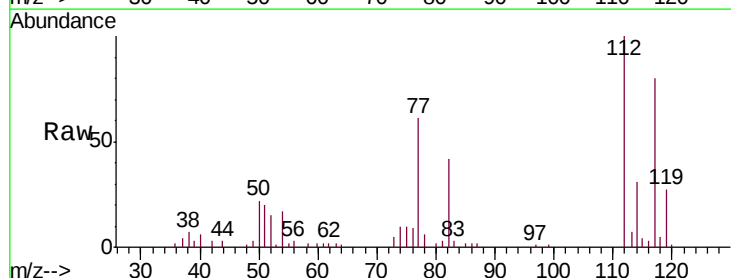
Tgt Ion:112 Resp: 17171

Ion Ratio Lower Upper

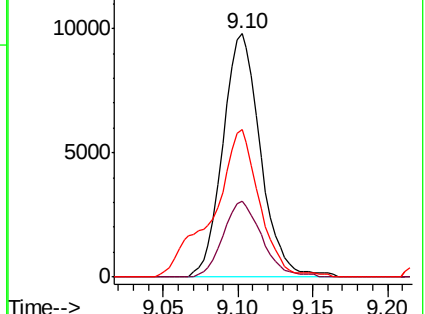
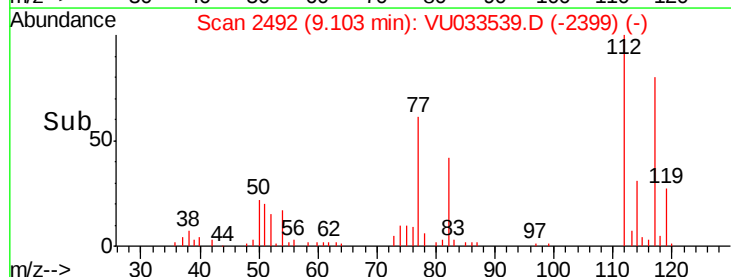
112 100

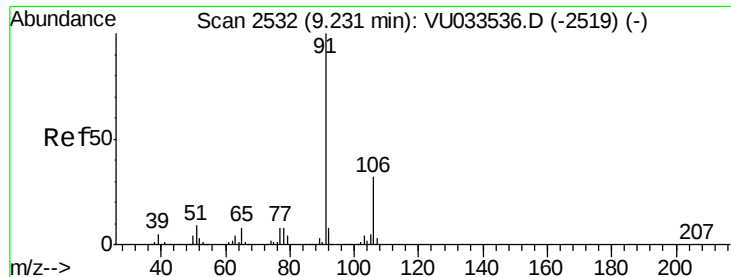
114 31.3 22.3 41.5

77 60.8 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: 2.570 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

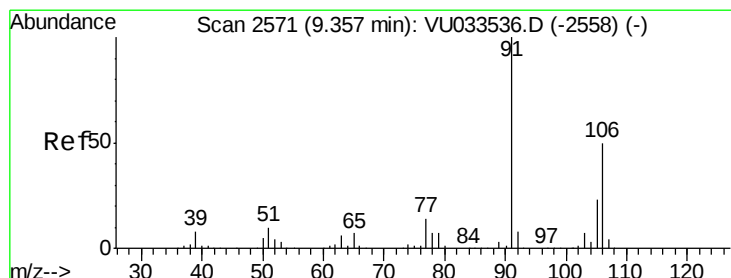
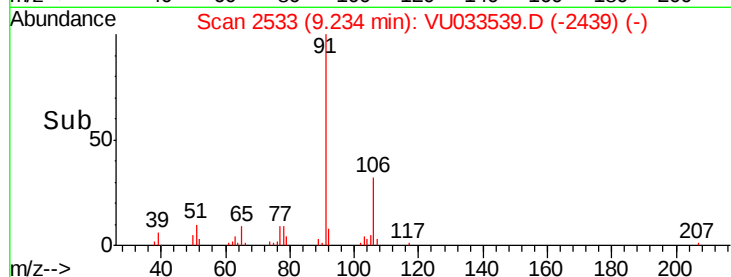
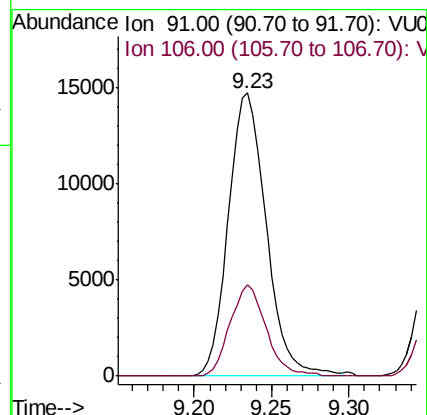
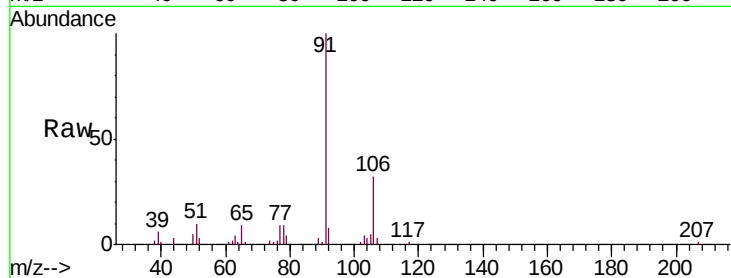
MDL02

Tgt Ion: 91 Resp: 25062

Ion Ratio Lower Upper

91 100

106 32.2 22.2 41.2



#53

m,p-Xylene

Concen: 2.573 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033539.D

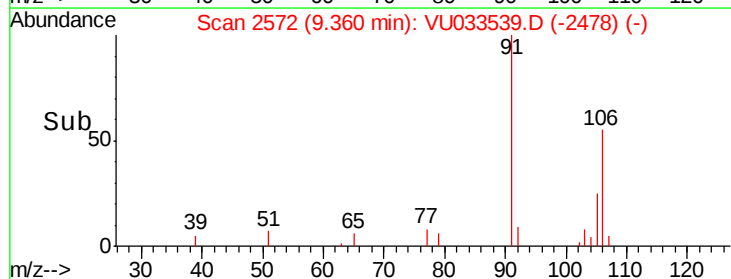
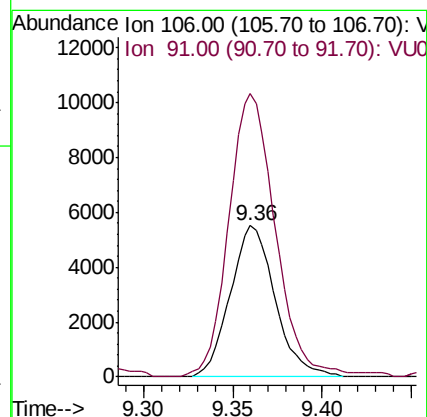
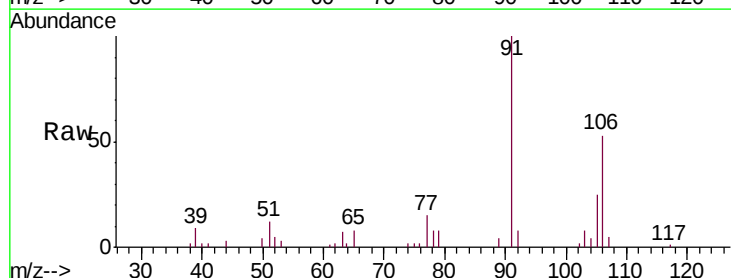
Acq: 01 Aug 2019 10:31

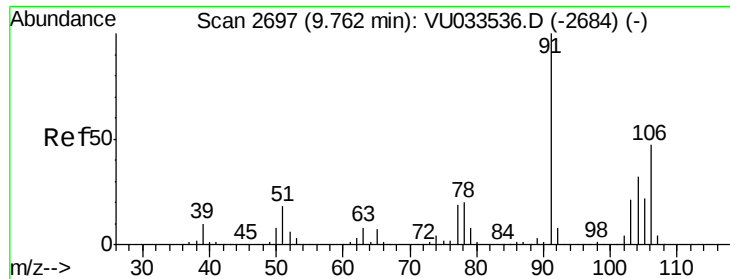
Tgt Ion: 106 Resp: 9634

Ion Ratio Lower Upper

106 100

91 187.0 143.0 265.6





#54

o-xylene

Concen: 2.482 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

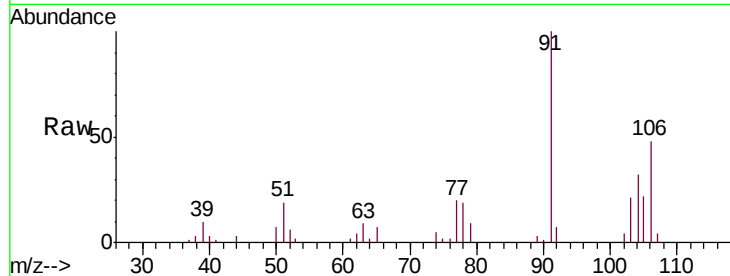
MDL02

Tgt Ion:106 Resp: 9013

Ion Ratio Lower Upper

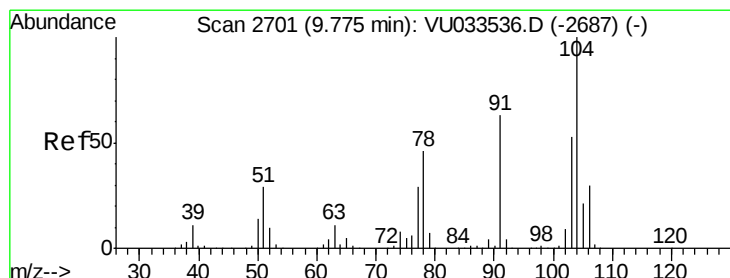
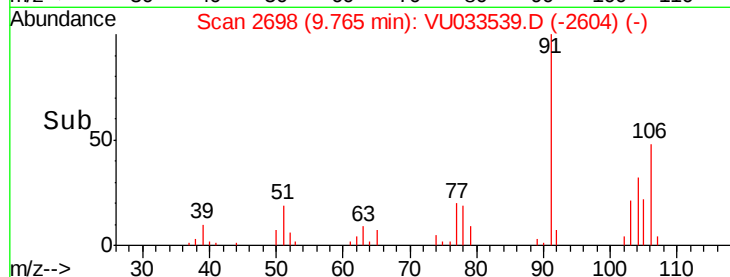
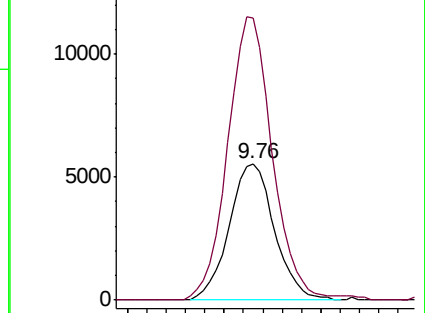
106 100

91 207.4 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.130 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033539.D

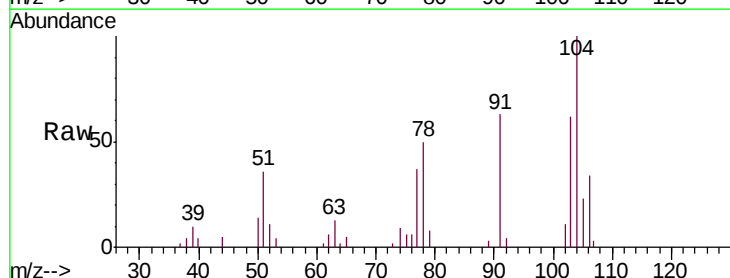
Acq: 01 Aug 2019 10:31

Tgt Ion:104 Resp: 13142

Ion Ratio Lower Upper

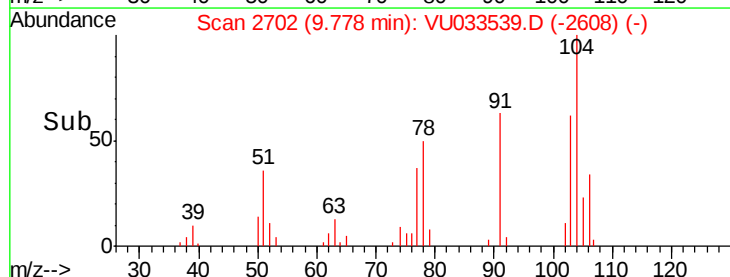
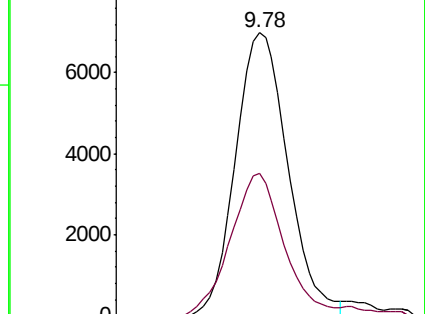
104 100

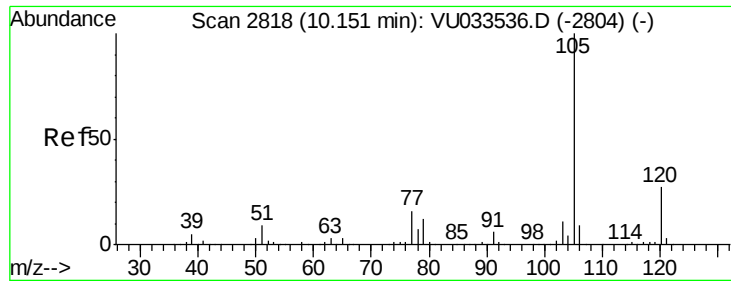
78 50.2 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 2.288 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

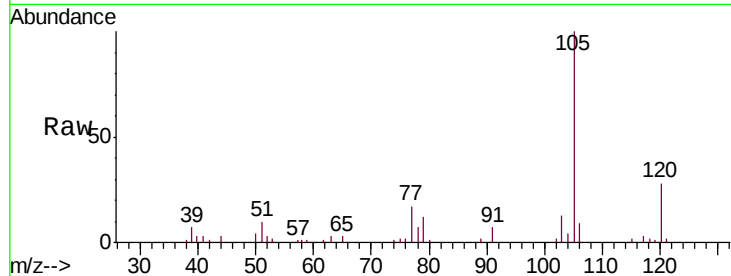
Tgt Ion: 105 Resp: 21712

Ion Ratio Lower Upper

105 100

120 28.2 21.4 32.0

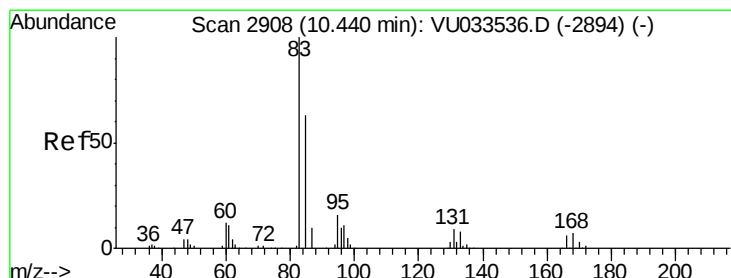
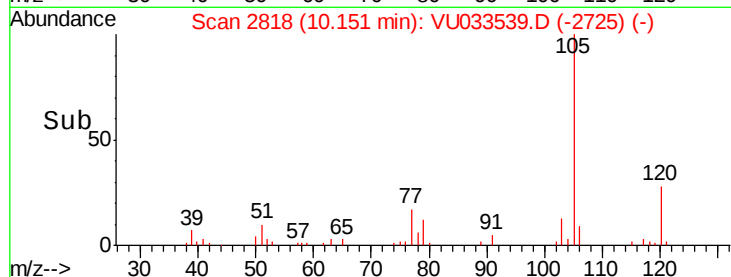
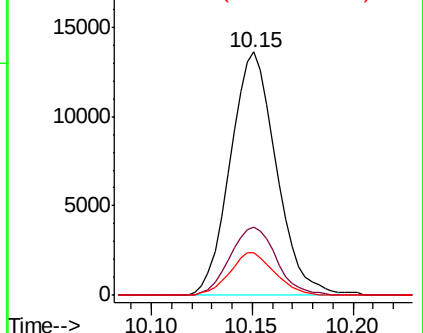
77 17.2 12.5 18.7



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: 2.946 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

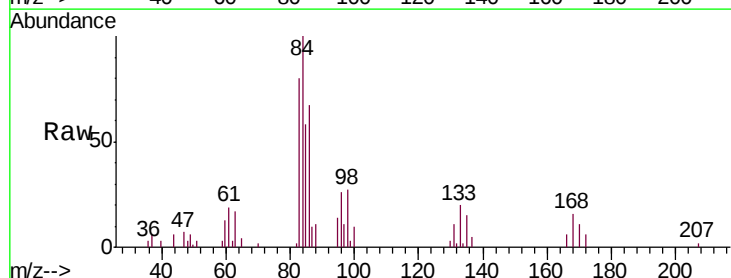
Tgt Ion: 83 Resp: 11372

Ion Ratio Lower Upper

83 100

85 72.1 45.4 84.4

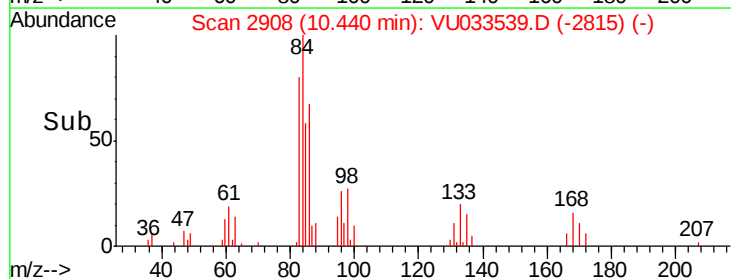
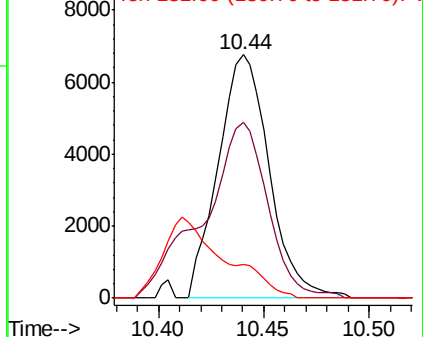
131 13.9 7.9 11.9#

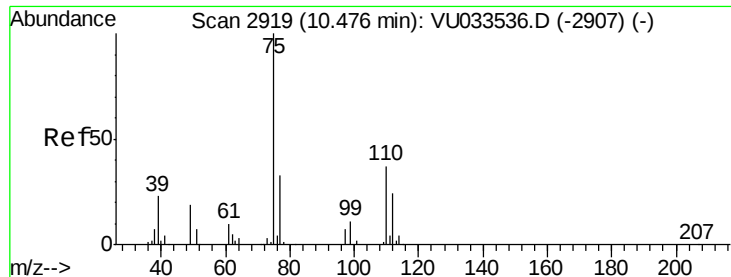


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.899 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

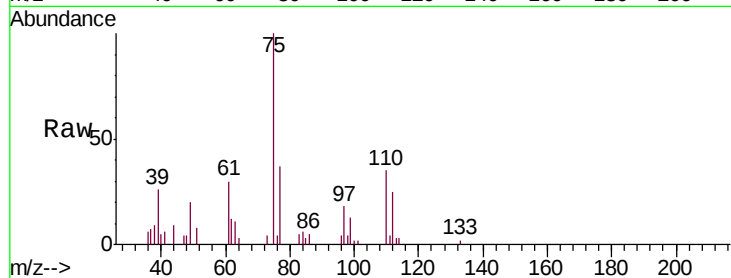
MDL02

Tgt Ion: 75 Resp: 8627

Ion Ratio Lower Upper

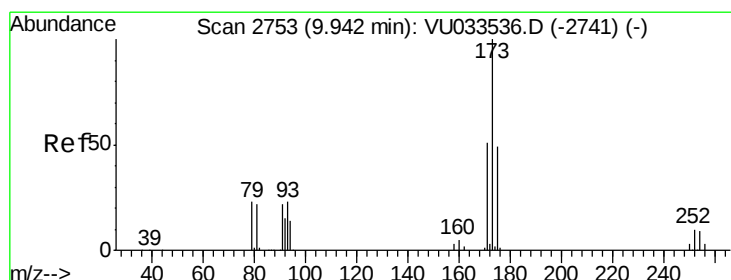
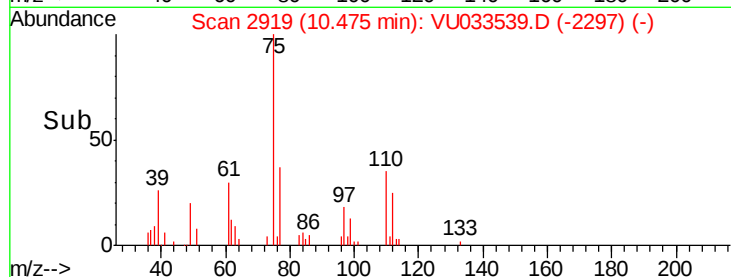
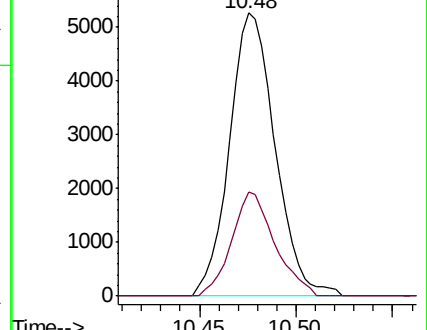
75 100

77 34.8 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU033536.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033536.D (-2907) (-)



#61

Bromoform

Concen: 2.839 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

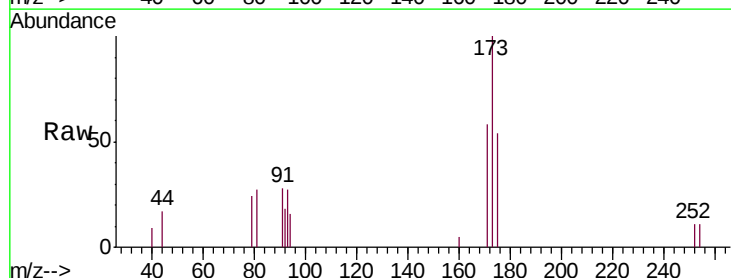
Tgt Ion: 173 Resp: 4904

Ion Ratio Lower Upper

173 100

175 52.3 38.7 58.1

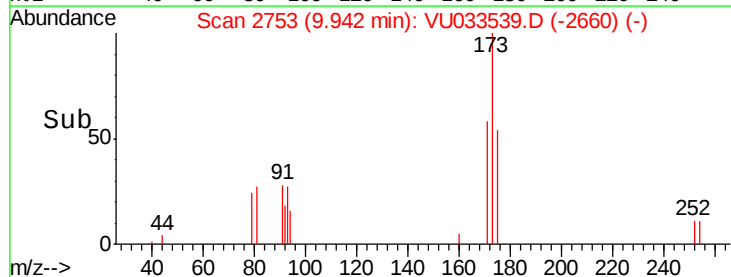
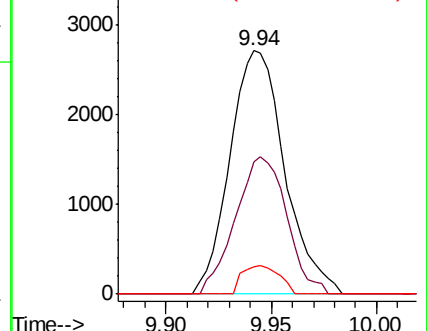
254 7.9 7.5 11.3

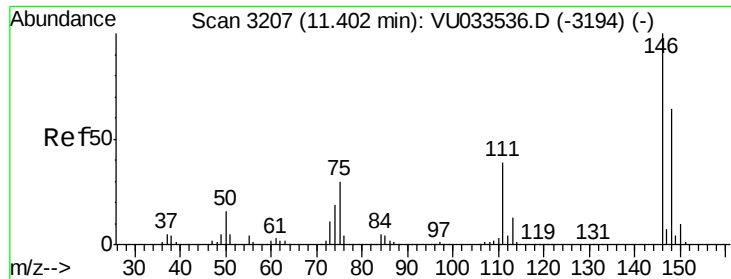


Abundance Ion 173.00 (172.70 to 173.70): VU033536.D (-2741) (-)

Ion 175.00 (174.70 to 175.70): VU033536.D (-2741) (-)

Ion 254.00 (253.70 to 254.70): VU033536.D (-2741) (-)





#62

1,3-Dichlorobenzene

Concen: 2.746 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

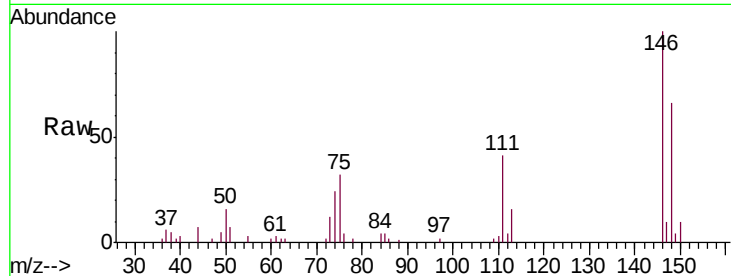
Tgt Ion:146 Resp: 12059

Ion Ratio Lower Upper

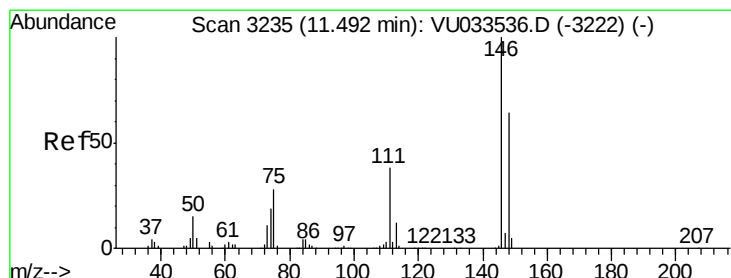
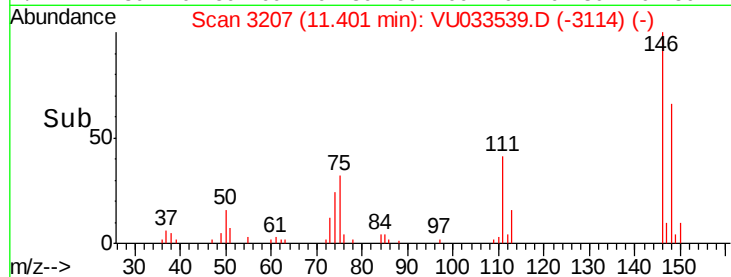
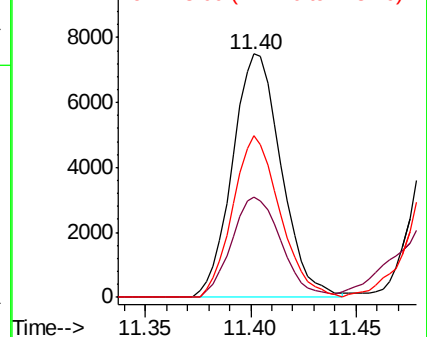
146 100

111 41.2 28.1 52.1

148 66.4 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: 2.896 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

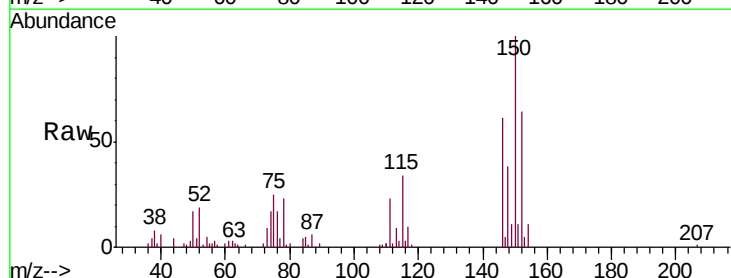
Tgt Ion:146 Resp: 13214

Ion Ratio Lower Upper

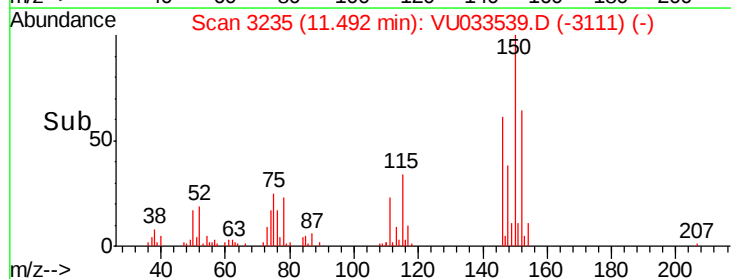
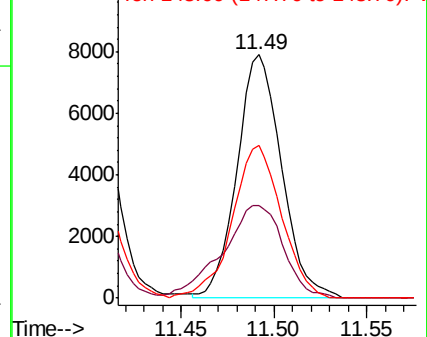
146 100

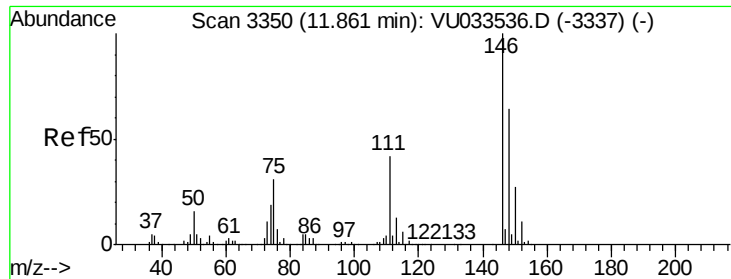
111 37.8 27.2 50.4

148 62.6 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: 3.199 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

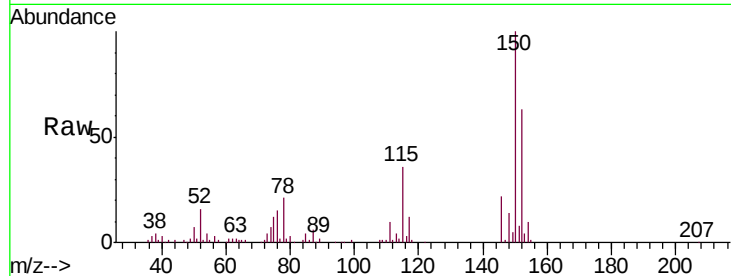
Tgt Ion: 146 Resp: 14204

Ion Ratio Lower Upper

146 100

111 46.8 31.7 47.5

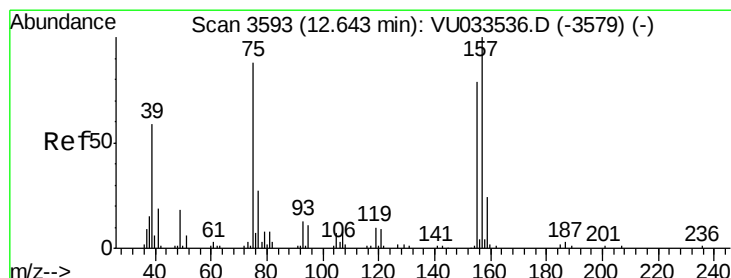
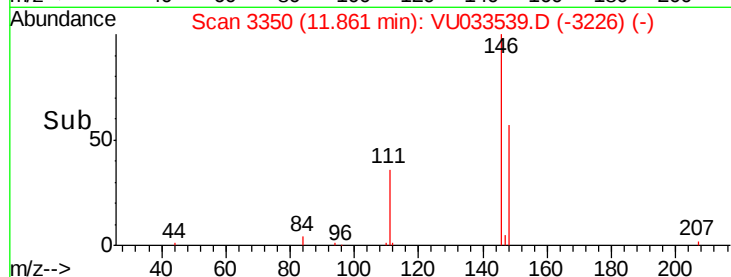
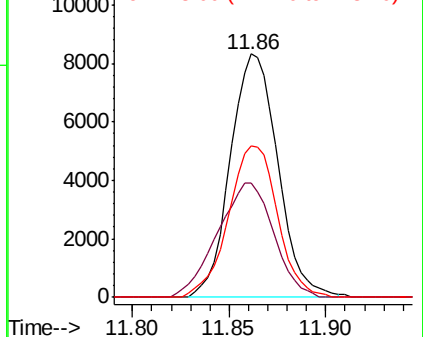
148 62.1 50.3 75.5



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



#66

1,2-Dibromo-3-chloropropane

Concen: 2.740 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

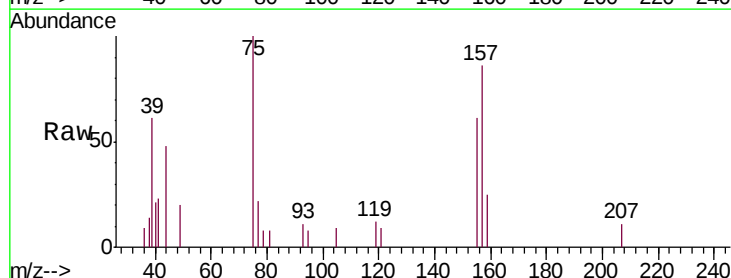
Tgt Ion: 75 Resp: 2248

Ion Ratio Lower Upper

75 100

155 61.2 69.4 104.0#

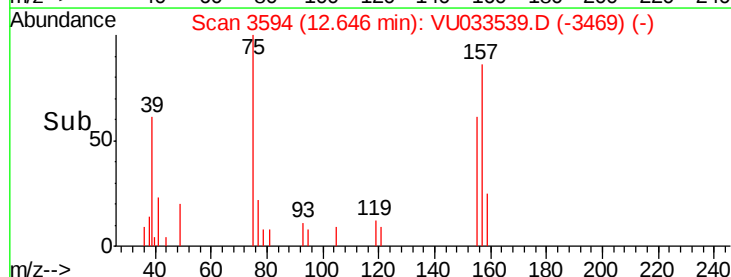
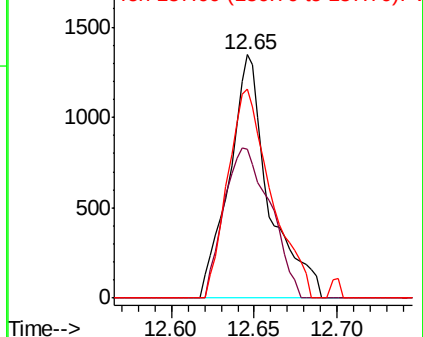
157 86.1 91.8 137.8#

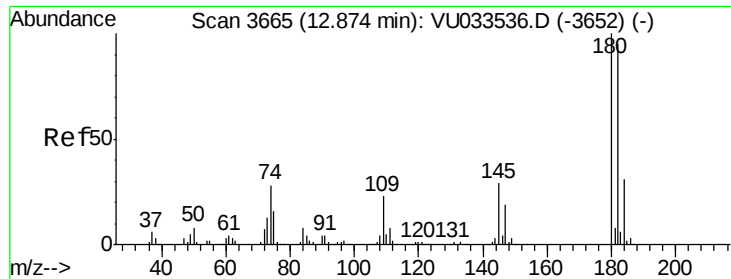


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

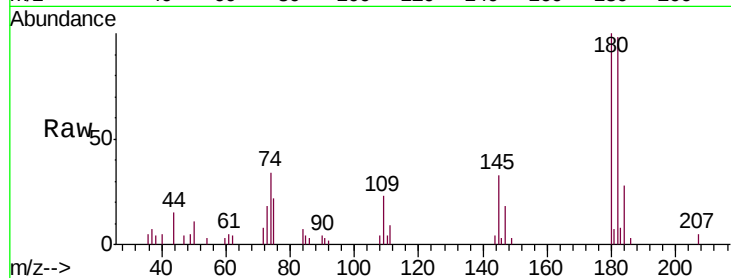




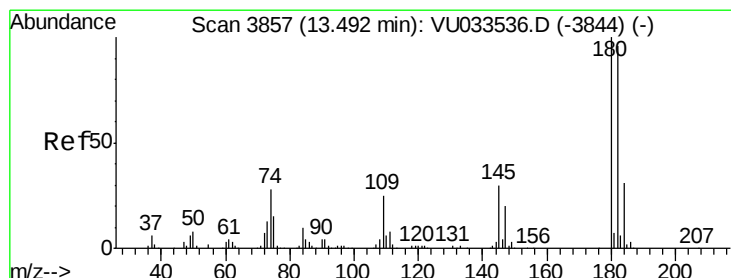
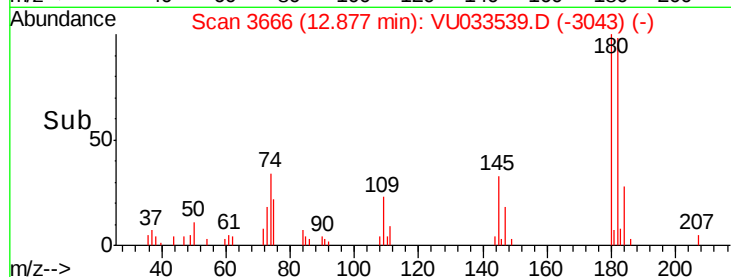
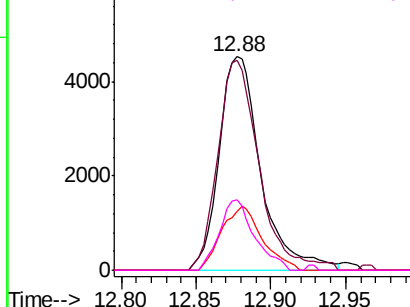
#67
 1,3,5-Trichlorobenzene
 Concen: 2.483 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tgt Ion:180 Resp: 8798
 Ion Ratio Lower Upper
 180 100
 182 97.0 75.6 113.4
 184 29.1 24.2 36.2
 145 27.7 22.7 34.1

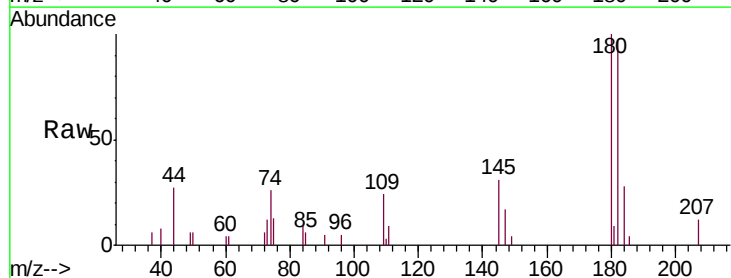


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

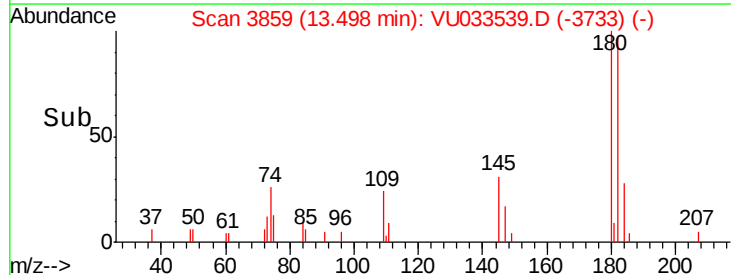
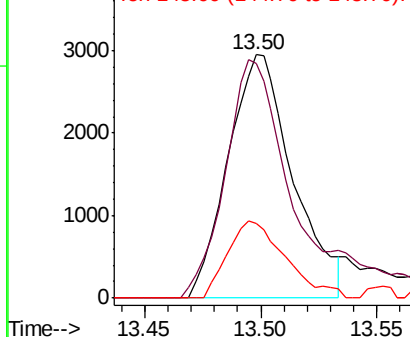


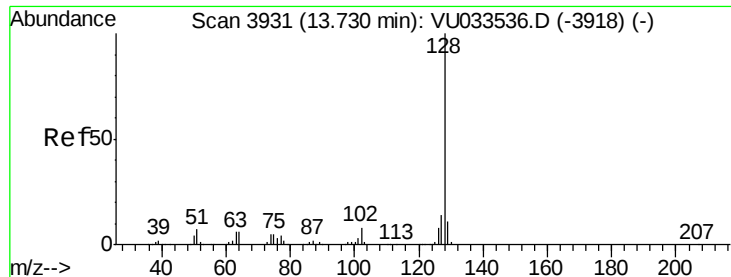
#68
 1,2,4-trichlorobenzene
 Concen: 1.890 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion:180 Resp: 5722
 Ion Ratio Lower Upper
 180 100
 182 92.3 75.8 113.8
 145 27.0 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: 1.539 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

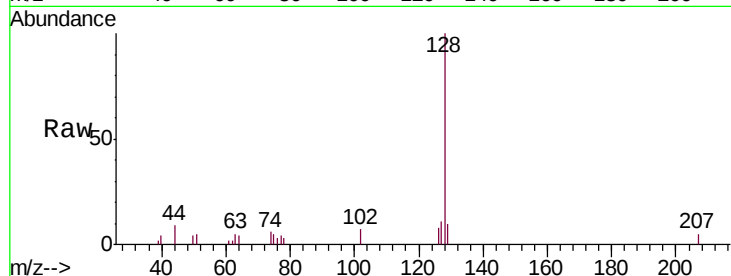
Tgt Ion:128 Resp: 13367

Ion Ratio Lower Upper

128 100

127 11.1 10.8 16.2

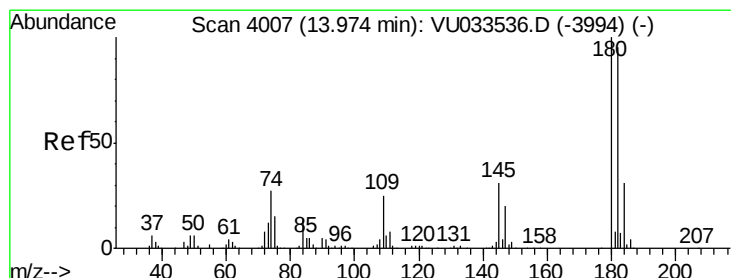
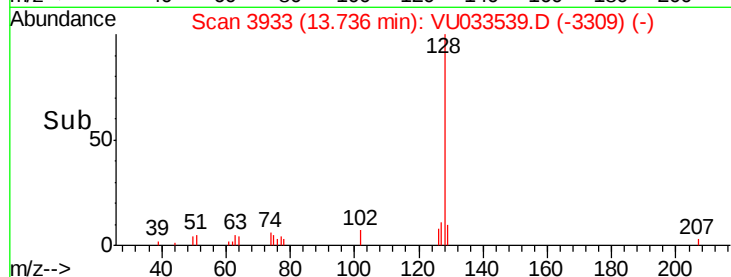
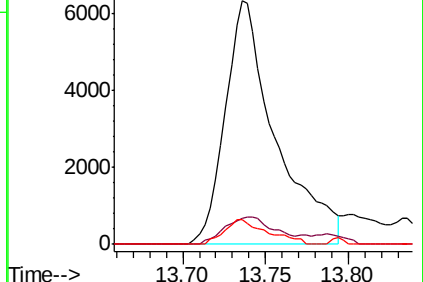
129 7.3 8.7 13.1#



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: 1.952 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.01 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

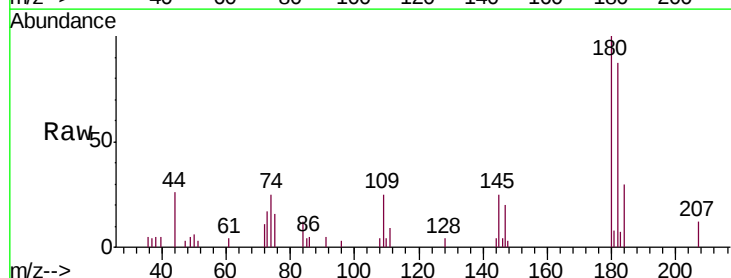
Tgt Ion:180 Resp: 6216

Ion Ratio Lower Upper

180 100

182 103.0 75.5 113.3

145 28.7 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

