

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
 Data File : VU033785.D
 Acq On : 13 Aug 2019 16:46
 Operator : JC/SP
 Sample : MDL06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Quant Time: Aug 14 04:27:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:23:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	404348	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	394453	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	187342	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	175689	45.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.50%
7) Chloroethane-d5	1.67	69	156504	43.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.52%
11) 1,1-Dichloroethene-d2	2.26	63	228818	36.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.96%
21) 2-Butanone-d5	4.15	46	219051	102.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.53%
24) Chloroform-d	4.62	84	280425	46.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.52%
26) 1,2-Dichloroethane-d4	5.29	65	182083	49.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.08%
32) Benzene-d6	5.32	84	572063	50.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.24%
36) 1,2-Dichloropropane-d6	6.31	67	183299	50.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.38%
41) Toluene-d8	7.55	98	513732	48.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.50%
43) trans-1,3-Dichloropropene-	7.83	79	84664	48.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.16%
47) 2-Hexanone-d5	8.30	63	150693	103.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.12%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	250713	48.10	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.20%
66) 1,2-Dichlorobenzene-d4	11.84	152	194273	51.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.66%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	10549	2.617 ug/L	92
3) Chloromethane	1.32	50	10894	2.603 ug/L	100
5) Vinyl chloride	1.39	62	11744	2.592 ug/L #	65
6) Bromomethane	1.62	94	8371	2.517 ug/L	97
8) Chloroethane	1.69	64	7388	2.281 ug/L	95
9) Trichlorofluoromethane	1.87	101	14375	2.469 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	9624	3.377 ug/L #	84
12) 1,1-Dichloroethene	2.27	96	8428	3.006 ug/L #	1
13) Acetone	2.32	43	10595	5.445 ug/L	96
14) Carbon disulfide	2.46	76	23109	2.603 ug/L	100
15) Methyl Acetate	2.61	43	8559	2.631 ug/L #	85
16) Methylene chloride	2.68	84	8706	2.720 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	7801	2.673 ug/L	90
18) Methyl tert-butyl Ether	2.98	73	20662	2.382 ug/L	97
19) 1,1-Dichloroethane	3.43	63	13657	2.436 ug/L	97
20) cis-1,2-Dichloroethene	4.20	96	8159	2.546 ug/L	94
22) 2-Butanone	4.26	43	4736	2.003 ug/L #	49

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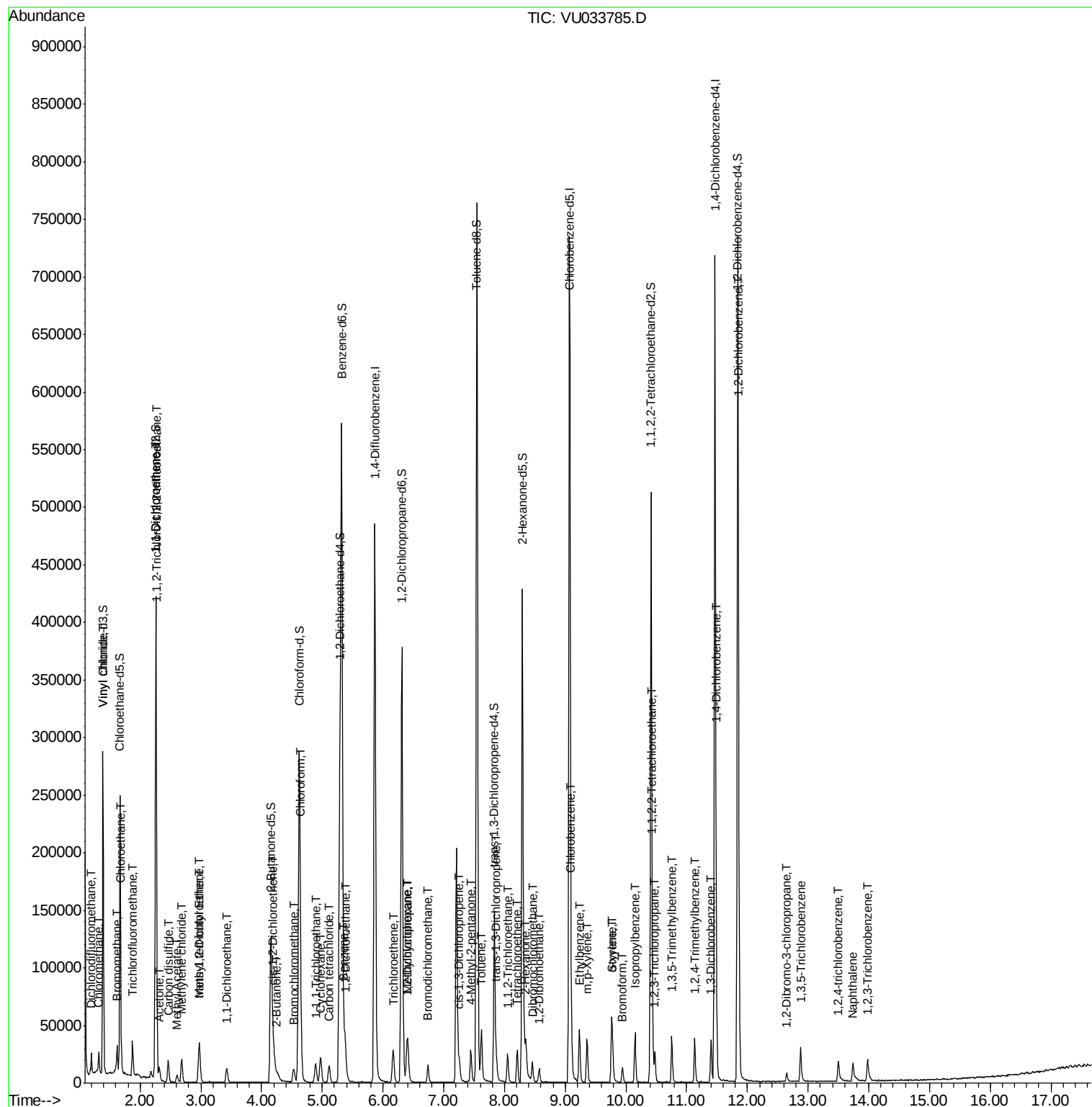
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	2986	1.798	ug/L	94
25) Chloroform	4.65	83	18464	3.169	ug/L	99
27) 1,2-Dichloroethane	5.39	62	10760	2.377	ug/L	98
29) Cyclohexane	4.97	56	10665	2.460	ug/L	96
30) 1,1,1-Trichloroethane	4.89	97	12424	2.568	ug/L	98
31) Carbon tetrachloride	5.12	117	11288	2.627	ug/L	98
33) Benzene	5.37	78	31424	2.604	ug/L	100
34) Trichloroethene	6.17	95	8161	2.553	ug/L	94
35) Methylcyclohexane	6.40	83	11356	2.437	ug/L	98
37) 1,2-Dichloropropane	6.41	63	9069	2.758	ug/L	99
38) Bromodichloromethane	6.74	83	10539	2.484	ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	11681	2.406	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	18805	4.596	ug/L	99
42) Toluene	7.62	91	32805	2.574	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	10321	2.334	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	7494	2.415	ug/L	96
46) Tetrachloroethene	8.21	164	6110	2.437	ug/L	94
48) 2-Hexanone	8.35	43	22576	7.209	ug/L #	91
49) Dibromochloromethane	8.46	129	8745	2.524	ug/L	92
50) 1,2-Dibromoethane	8.57	107	8638	2.653	ug/L	93
51) Chlorobenzene	9.10	112	21931	2.644	ug/L	90
52) Ethylbenzene	9.23	91	32762	2.443	ug/L	96
53) m,p-Xylene	9.36	106	11646	2.323	ug/L	95
54) o-xylene	9.76	106	11479	2.327	ug/L	96
55) Styrene	9.78	104	16520	1.973	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.44	83	14214	2.738	ug/L #	96
59) Bromoform	9.94	173	6295	2.630	ug/L #	98
60) 1,2,3-Trichloropropane	10.48	75	10467	2.777	ug/L	97
61) Isopropylbenzene	10.15	105	27398	2.362	ug/L	97
62) 1,3,5-Trimethylbenzene	10.76	105	21329	2.278	ug/L	96
63) 1,2,4-Trimethylbenzene	11.13	105	19994	2.152	ug/L	99
64) 1,3-Dichlorobenzene	11.40	146	15468	2.658	ug/L	98
65) 1,4-Dichlorobenzene	11.49	146	17234	2.890	ug/L	97
67) 1,2-Dichlorobenzene	11.86	146	17205	2.910	ug/L	90
68) 1,2-Dibromo-3-chloropropan	12.65	75	2677	2.546	ug/L	91
69) 1,3,5-Trichlorobenzene	12.88	180	11591	2.637	ug/L	93
70) 1,2,4-trichlorobenzene	13.49	180	8211	2.253	ug/L	97
71) Naphthalene	13.74	128	16574	1.528	ug/L	97
72) 1,2,3-Trichlorobenzene	13.98	180	9258	2.423	ug/L	89

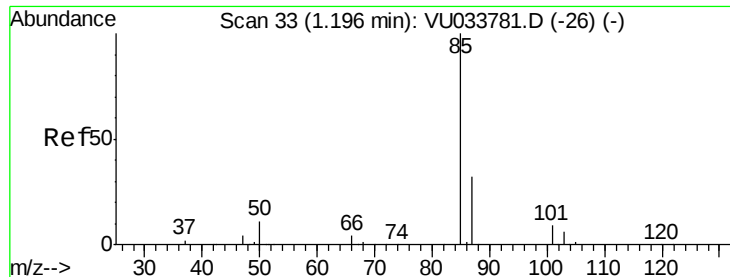
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.617 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

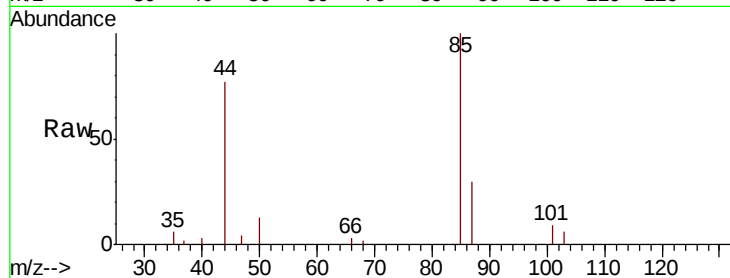
MDL06

Tgt Ion: 85 Resp: 10549

Ion Ratio Lower Upper

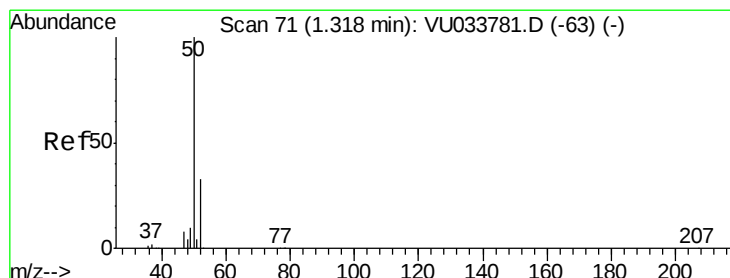
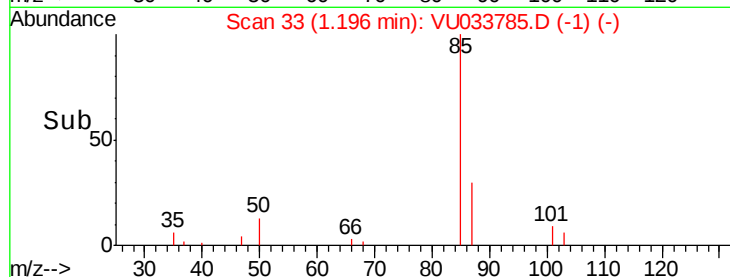
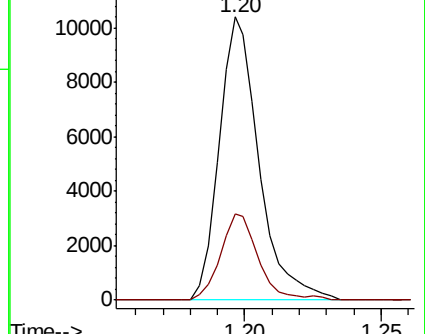
85 100

87 28.4 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU033785.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033785.D (-26) (-)



#3

Chloromethane

Concen: 2.603 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033785.D

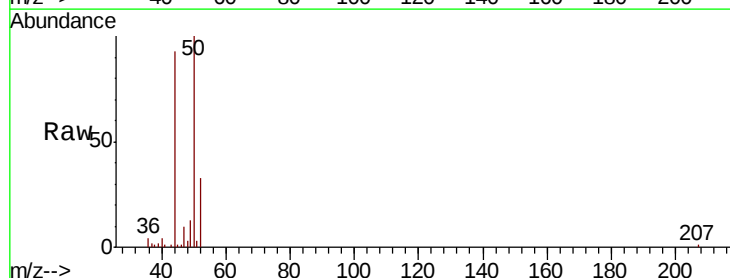
Acq: 13 Aug 2019 16:46

Tgt Ion: 50 Resp: 10894

Ion Ratio Lower Upper

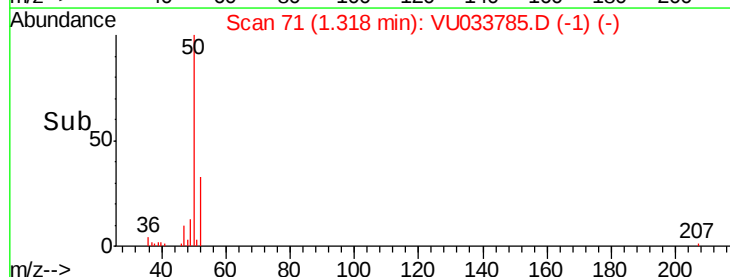
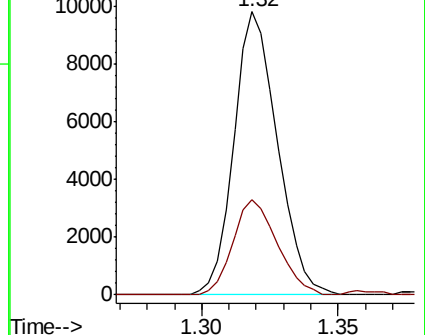
50 100

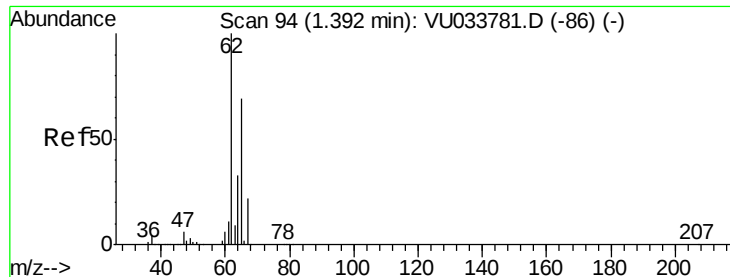
52 33.5 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU033785.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033785.D (-63) (-)





#5

Vinyl chloride

Concen: 2.592 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

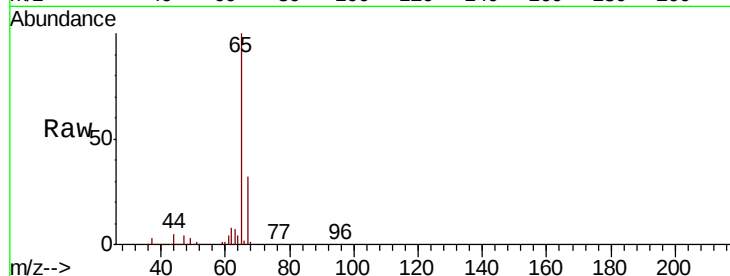
MDL06

Tgt Ion: 62 Resp: 11744

Ion Ratio Lower Upper

62 100

64 51.3 22.3 41.5#



Abundance Ion 62.00 (61.70 to 62.70): VU033781.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033781.D (-86) (-)

12000

10000

8000

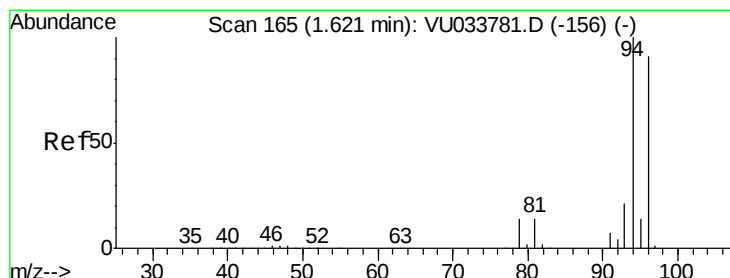
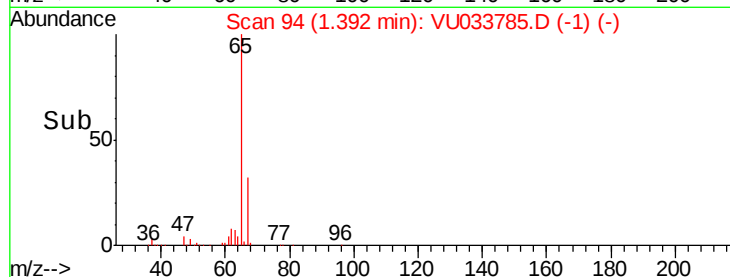
6000

4000

2000

0

Time--> 1.35 1.40



#6

Bromomethane

Concen: 2.517 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033785.D

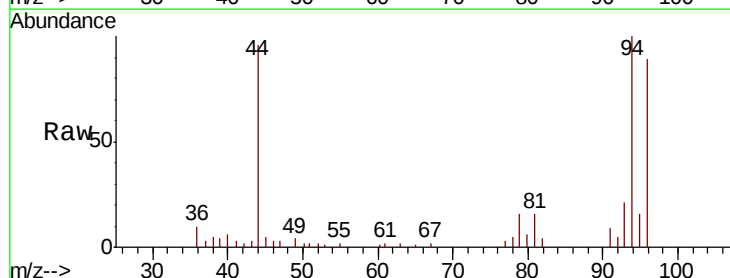
Acq: 13 Aug 2019 16:46

Tgt Ion: 94 Resp: 8371

Ion Ratio Lower Upper

94 100

96 89.3 64.5 119.7



Abundance Ion 94.00 (93.70 to 94.70): VU033781.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU033781.D (-156) (-)

8000

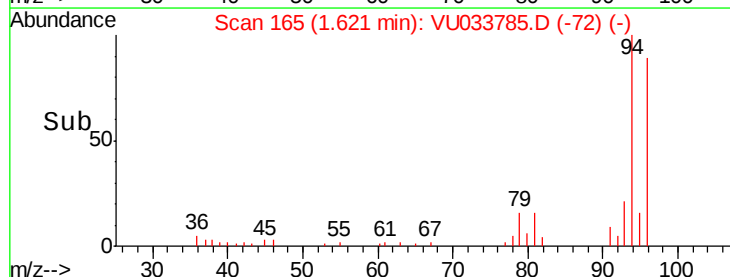
6000

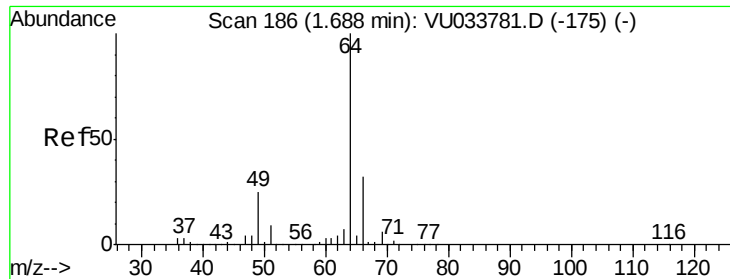
4000

2000

0

Time--> 1.60 1.65

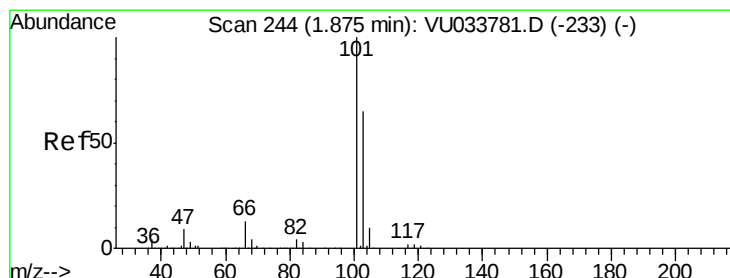
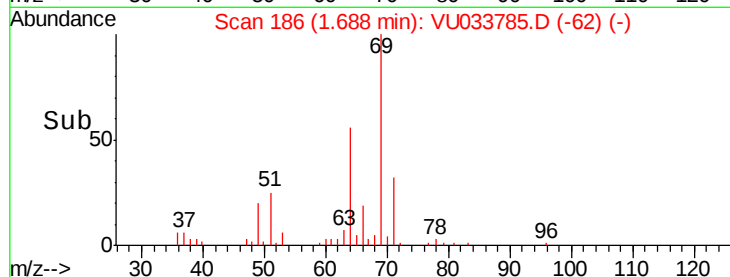
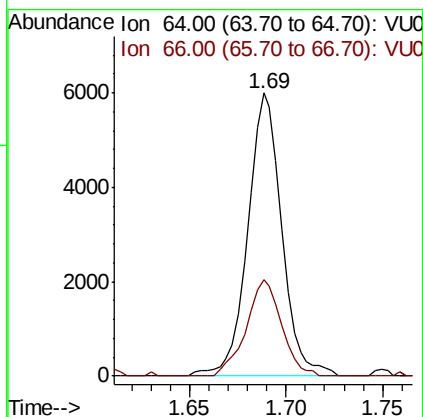
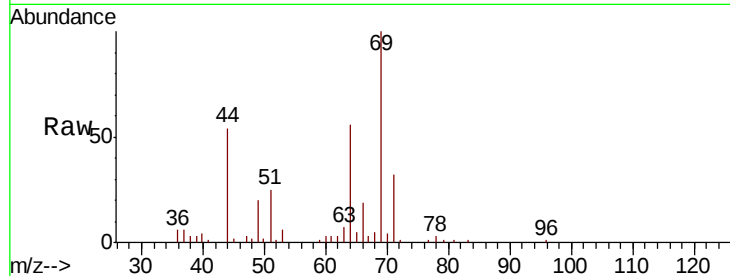




#8
Chloroethane
Concen: 2.281 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

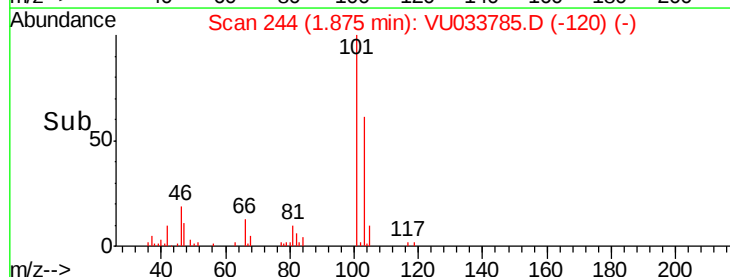
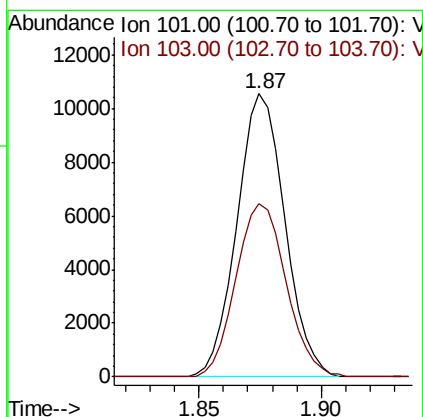
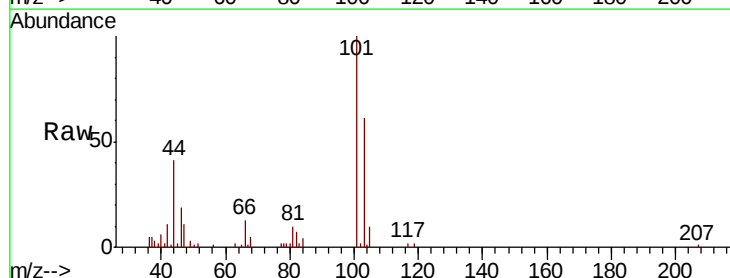
Instrument :
MSVOA_U
ClientSampled :
MDL06

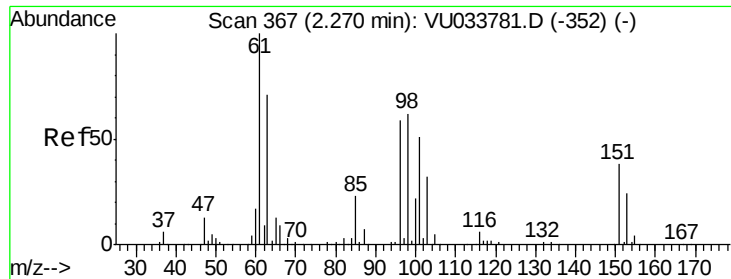
Tgt Ion: 64 Resp: 7388
Ion Ratio Lower Upper
64 100
66 34.0 21.9 40.7



#9
Trichlorofluoromethane
Concen: 2.469 ug/L
RT: 1.87 min Scan# 244
Delta R.T. 0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

Tgt Ion: 101 Resp: 14375
Ion Ratio Lower Upper
101 100
103 64.1 52.2 78.4





#10

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

Concen: 3.377 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

MDL06

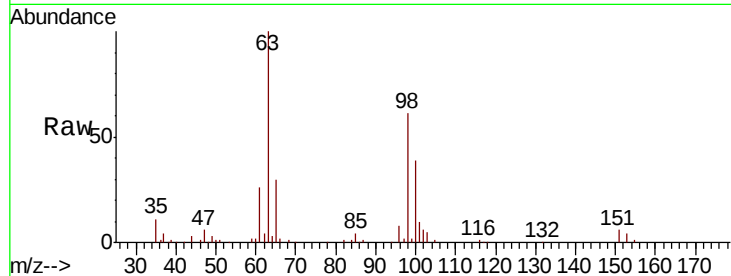
Tgt Ion:101 Resp: 9624

Ion Ratio Lower Upper

101 100

85 36.6 35.2 52.8

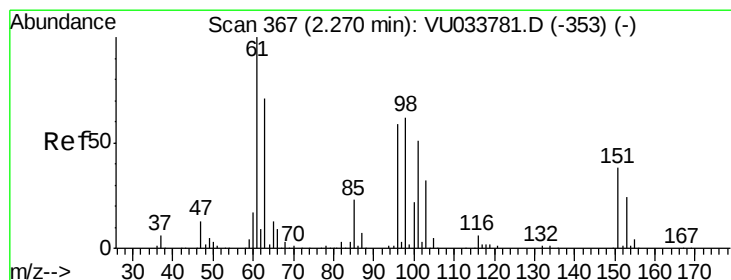
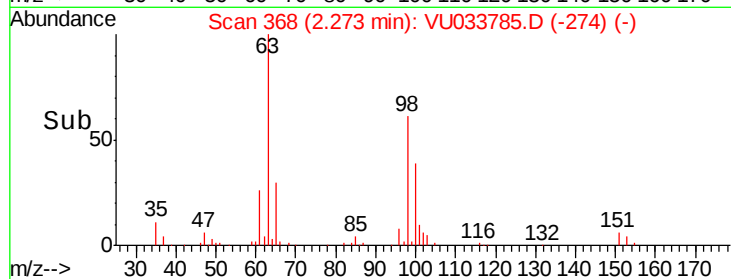
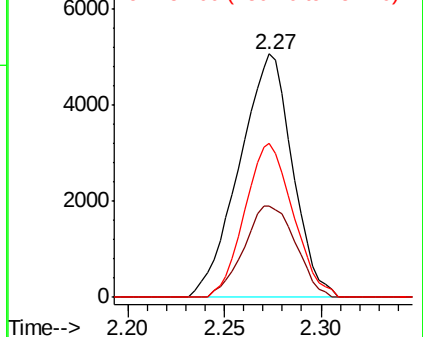
151 57.6 58.5 87.7#



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: 3.006 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

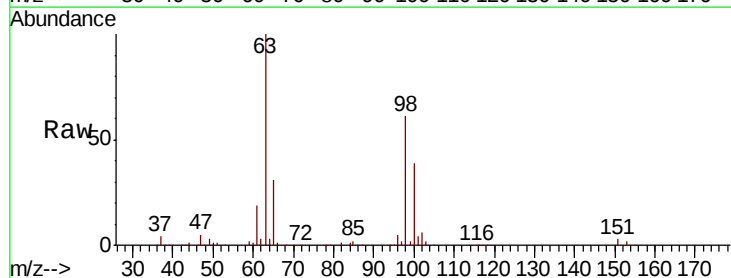
Tgt Ion: 96 Resp: 8428

Ion Ratio Lower Upper

96 100

61 369.0 121.5 225.7#

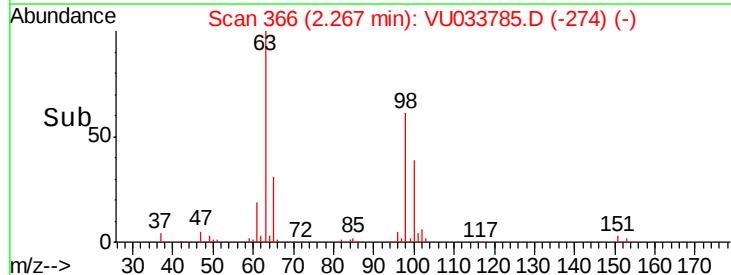
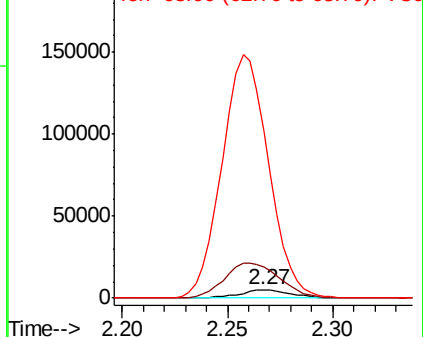
63 1988.3 92.9 172.5#

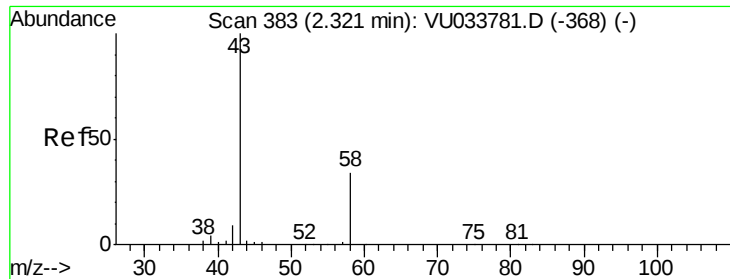


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.445 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.01 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

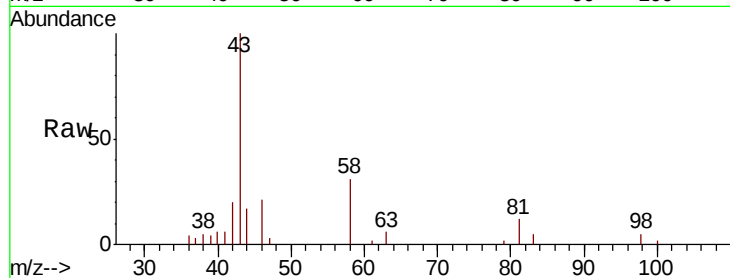
MDL06

Tgt Ion: 43 Resp: 10595

Ion Ratio Lower Upper

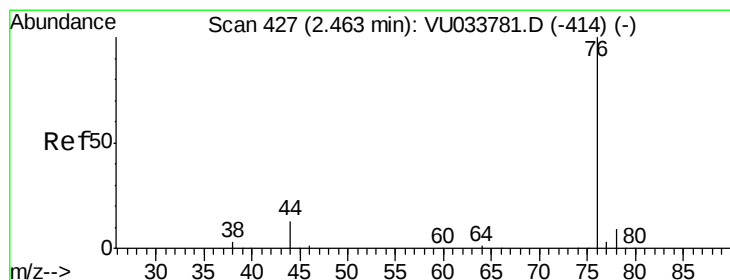
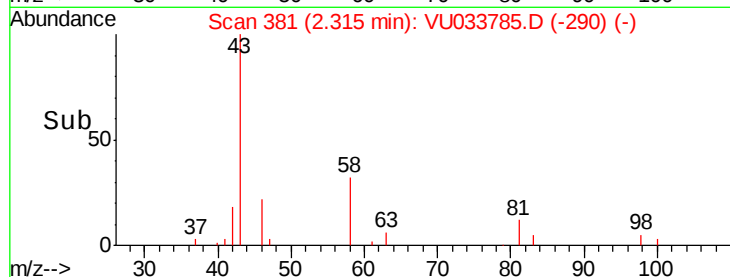
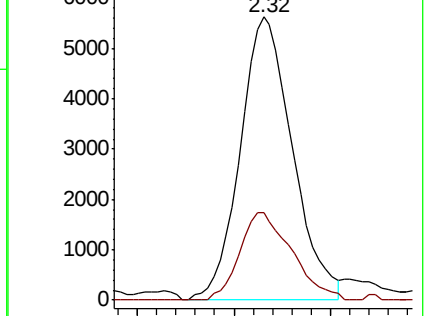
43 100

58 30.7 0.0 65.8



Abundance Ion 43.00 (42.70 to 43.70): VU033781.D (-368) (-)

Ion 58.00 (57.70 to 58.70): VU033781.D (-368) (-)



#14

Carbon disulfide

Concen: 2.603 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033785.D

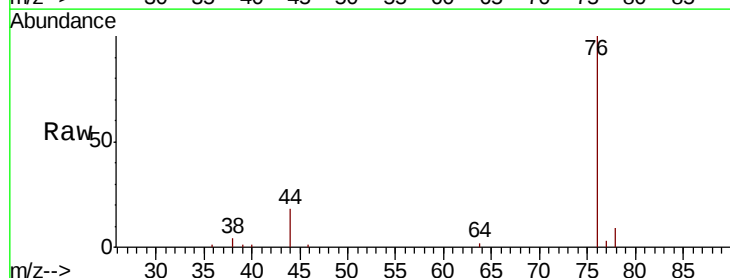
Acq: 13 Aug 2019 16:46

Tgt Ion: 76 Resp: 23109

Ion Ratio Lower Upper

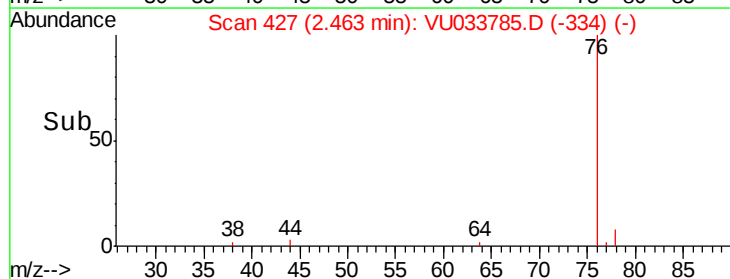
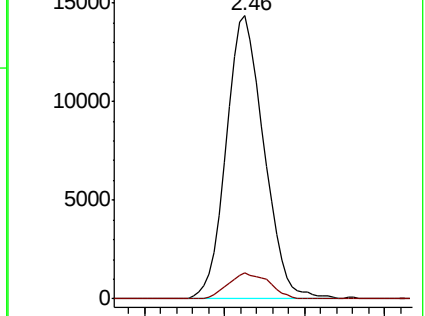
76 100

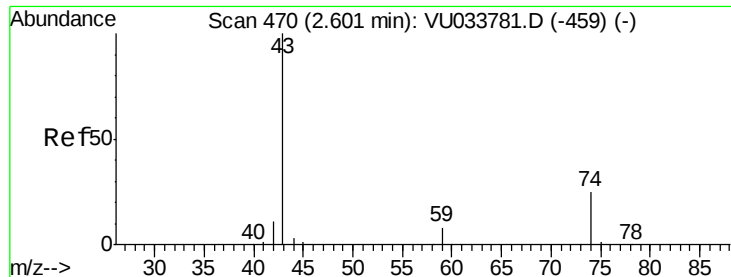
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU033781.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033781.D (-414) (-)





#15

Methyl Acetate

Concen: 2.631 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

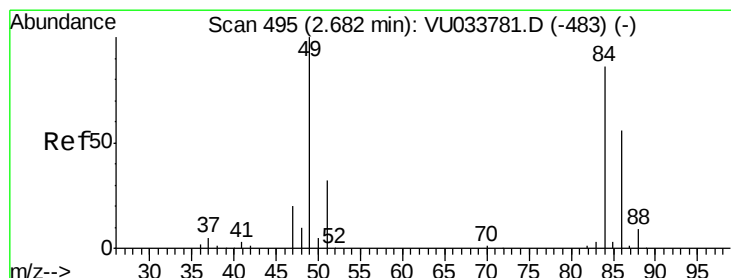
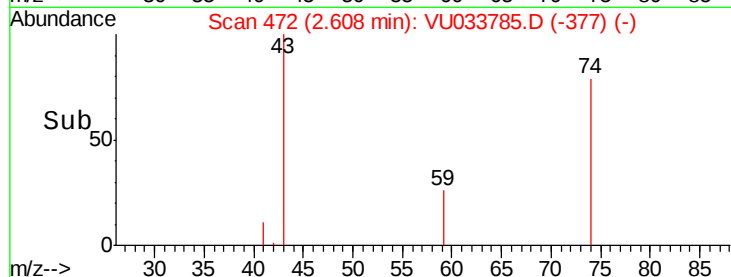
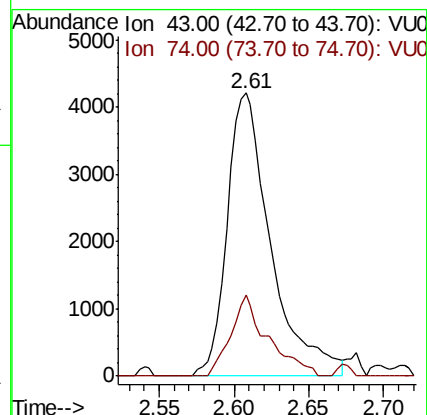
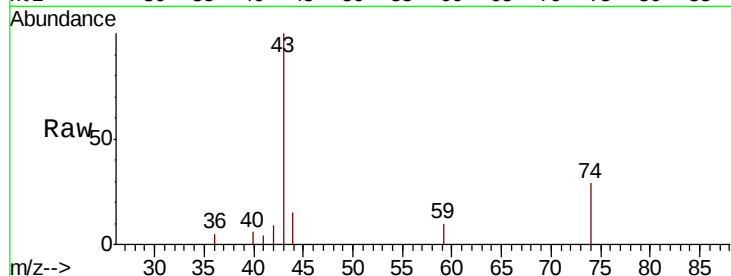
MDL06

Tgt Ion: 43 Resp: 8559

Ion Ratio Lower Upper

43 100

74 17.9 20.3 30.5#



#16

Methylene chloride

Concen: 2.720 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

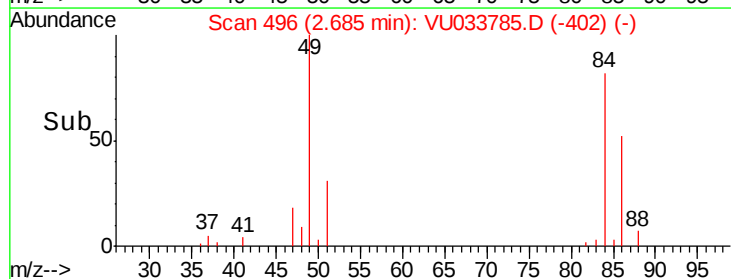
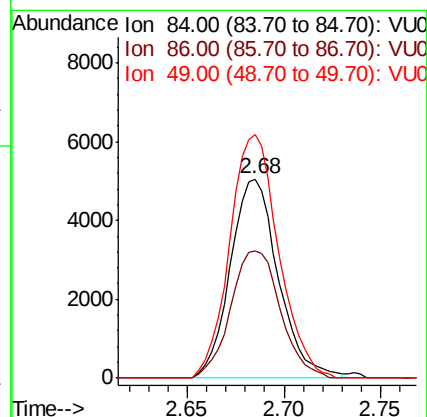
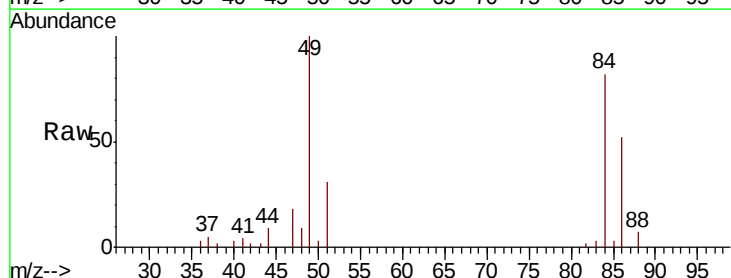
Tgt Ion: 84 Resp: 8706

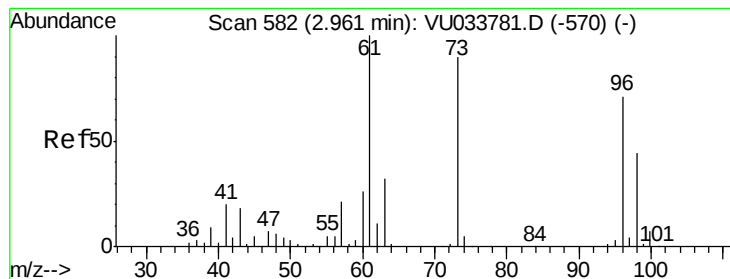
Ion Ratio Lower Upper

84 100

86 64.1 45.4 84.4

49 122.1 84.9 157.7





#17

trans-1,2-Dichloroethene

Concen: 2.673 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

MDL06

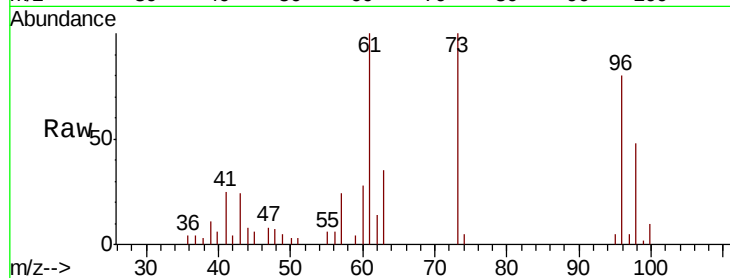
Tgt Ion: 96 Resp: 7801

Ion Ratio Lower Upper

96 100

61 125.5 98.8 183.6

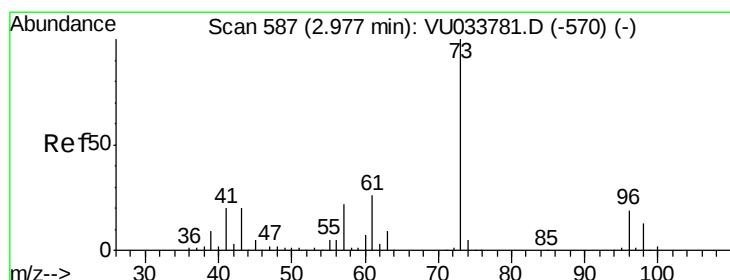
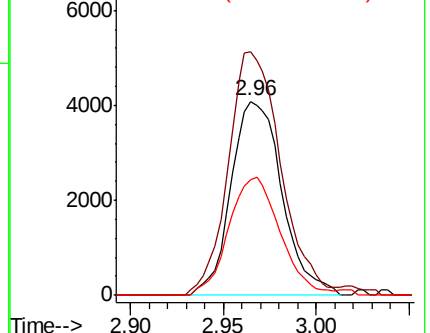
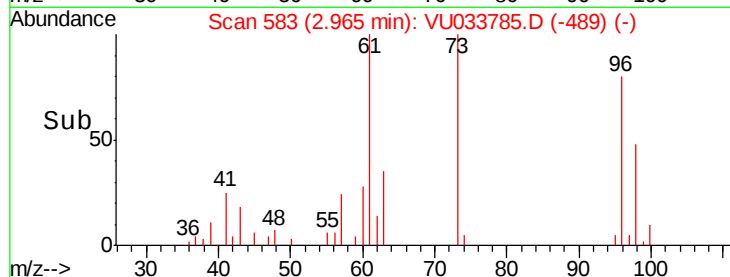
98 59.8 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033785.D (-489) (-)

Ion 61.00 (60.70 to 61.70): VU033785.D (-489) (-)

Ion 98.00 (97.70 to 98.70): VU033785.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 2.382 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

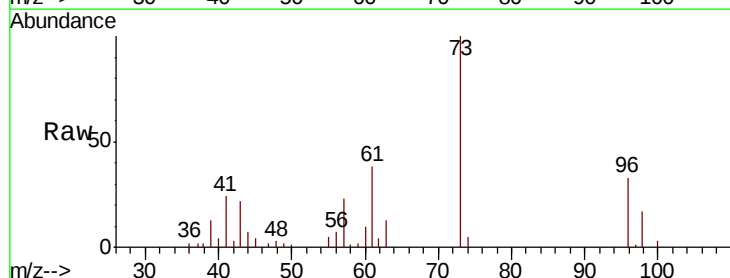
Tgt Ion: 73 Resp: 20662

Ion Ratio Lower Upper

73 100

43 22.3 15.4 23.2

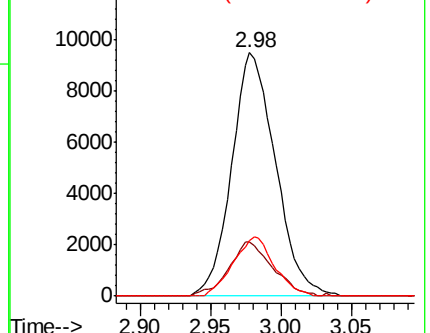
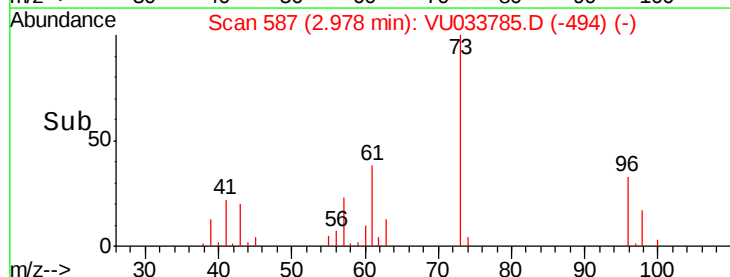
57 22.8 17.9 26.9

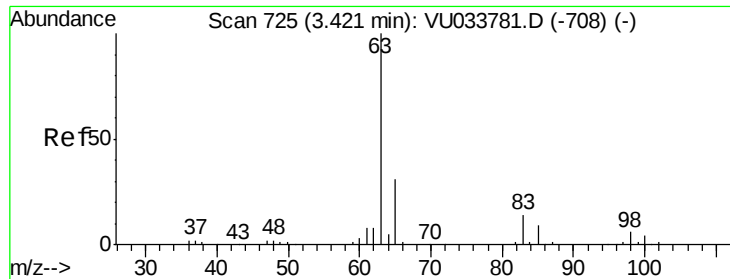


Abundance Ion 73.00 (72.70 to 73.70): VU033785.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033785.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033785.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 2.436 ug/L

RT: 3.43 min Scan# 727

Delta R.T. 0.01 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

MDL06

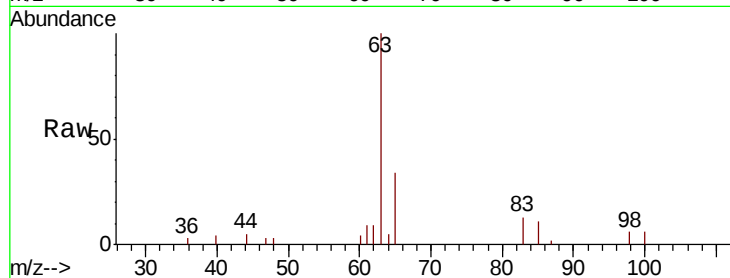
Tgt Ion: 63 Resp: 13657

Ion Ratio Lower Upper

63 100

65 34.4 22.8 42.4

83 13.1 9.5 17.7

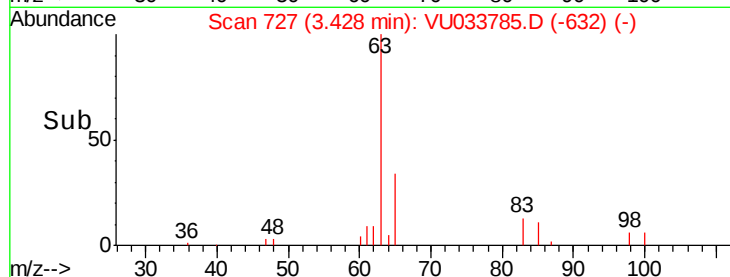


Abundance Ion 63.00 (62.70 to 63.70): VU033785.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033785.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033785.D (-632) (-)

Time-->



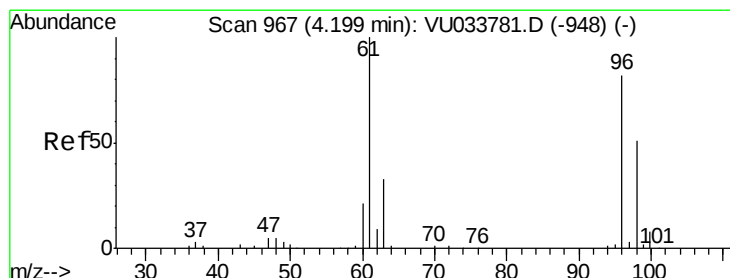
Abundance

Ion 63.00 (62.70 to 63.70): VU033785.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033785.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033785.D (-632) (-)

Time-->



#20

cis-1,2-Dichloroethene

Concen: 2.546 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

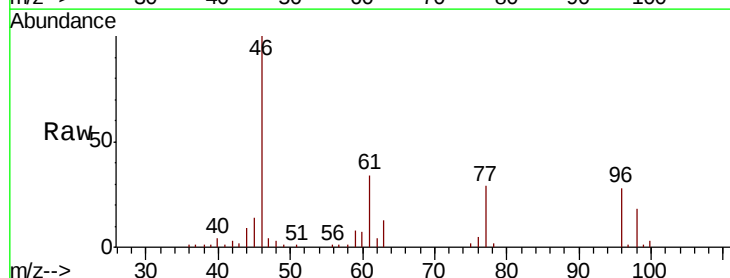
Tgt Ion: 96 Resp: 8159

Ion Ratio Lower Upper

96 100

61 119.5 88.3 163.9

68 0.0 0.0 0.0

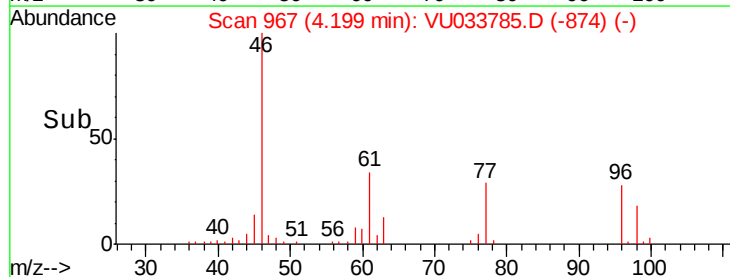


Abundance Ion 96.00 (95.70 to 96.70): VU033785.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033785.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033785.D (-874) (-)

Time-->



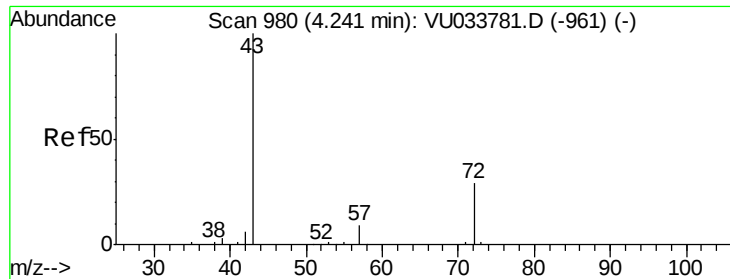
Abundance

Ion 96.00 (95.70 to 96.70): VU033785.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033785.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033785.D (-874) (-)

Time-->



#22

2-Butanone

Concen: 2.003 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.02 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampled :

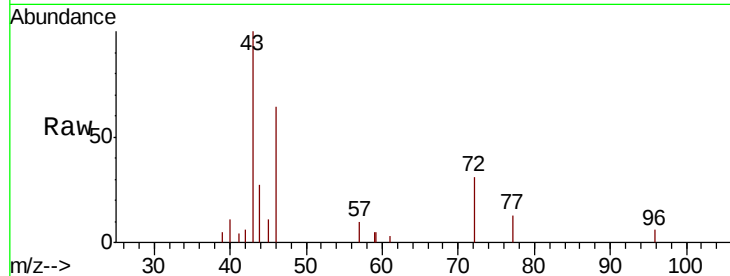
MDL06

Tgt Ion: 43 Resp: 4736

Ion Ratio Lower Upper

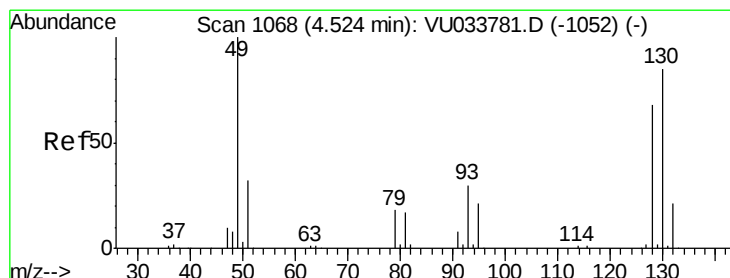
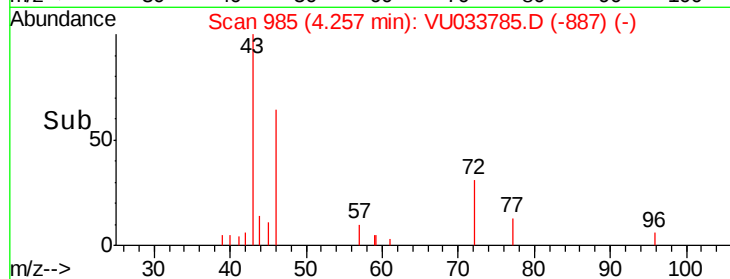
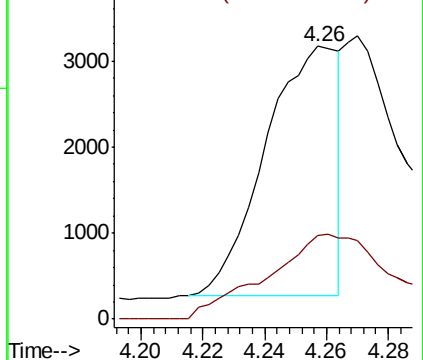
43 100

72 56.1 14.5 43.5#



Abundance Ion 43.00 (42.70 to 43.70): VU033785.D (-985) (-)

Ion 72.00 (71.70 to 72.70): VU033785.D (-985) (-)



#23

Bromochloromethane

Concen: 1.798 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Tgt Ion: 128 Resp: 2986

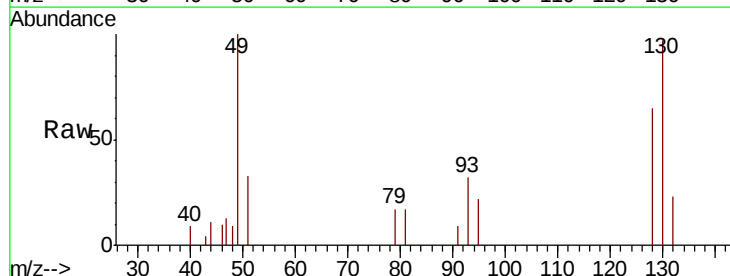
Ion Ratio Lower Upper

128 100

49 154.6 108.1 200.7

130 149.3 91.8 170.6

51 51.2 40.6 61.0

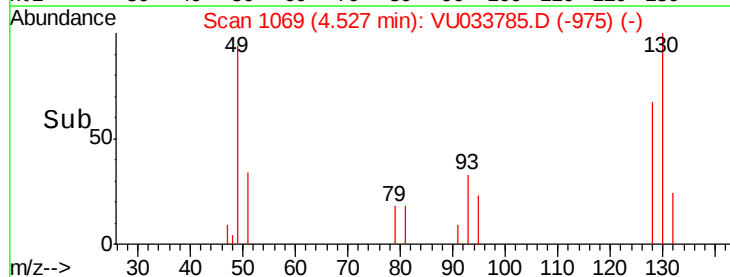
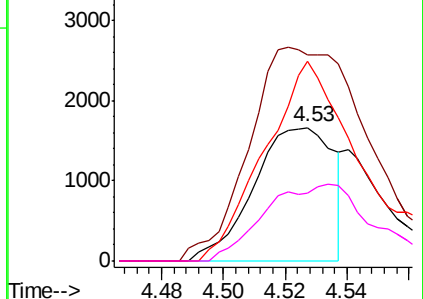


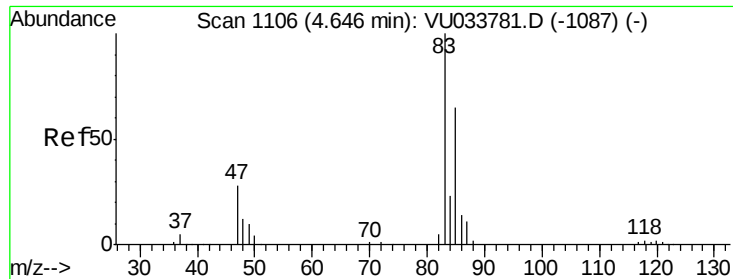
Abundance Ion 128.00 (127.70 to 128.70): VU033785.D (-1069) (-)

Ion 49.00 (48.70 to 49.70): VU033785.D (-1069) (-)

Ion 130.00 (129.70 to 130.70): VU033785.D (-1069) (-)

Ion 51.00 (50.70 to 51.70): VU033785.D (-1069) (-)

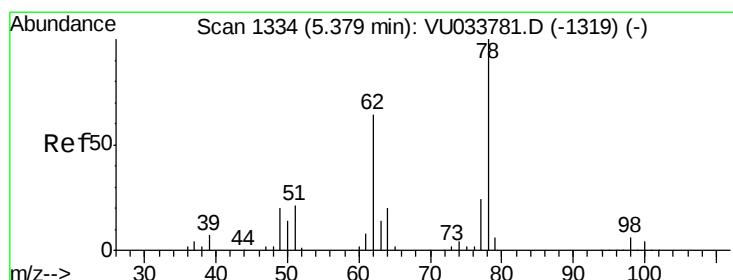
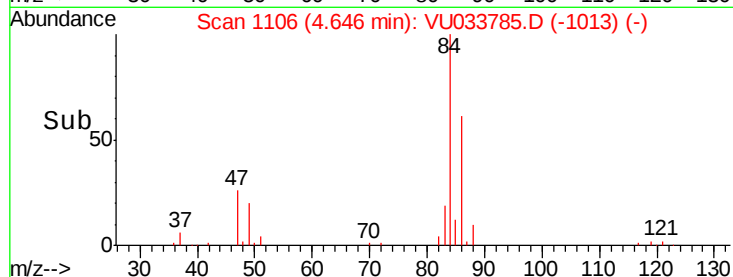
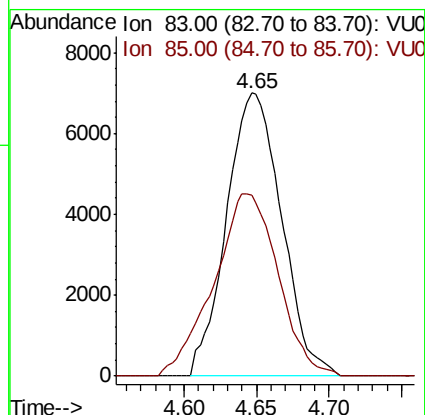
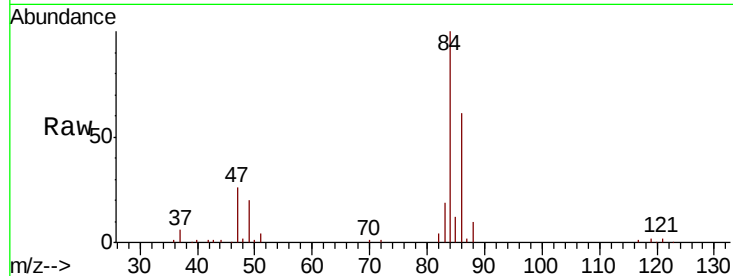




#25
Chloroform
Concen: 3.169 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

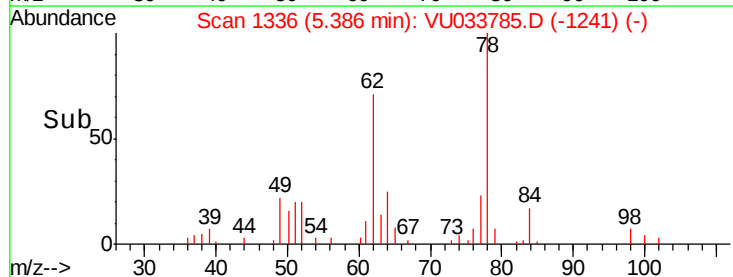
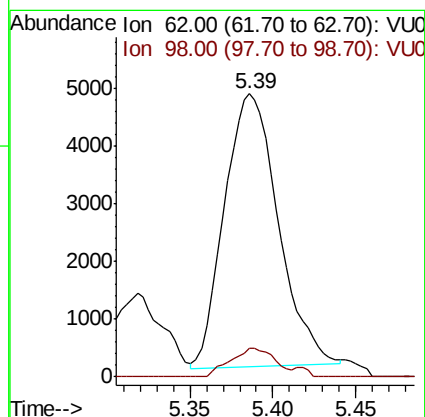
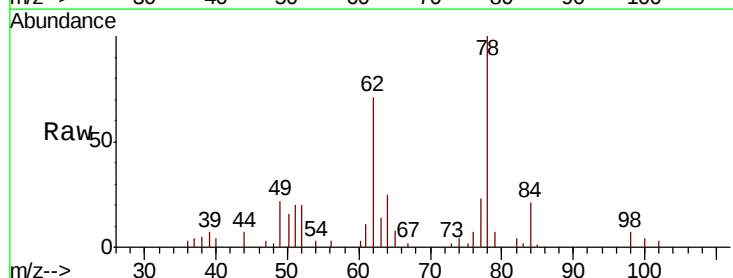
Instrument :
MSVOA_U
ClientSampleId :
MDL06

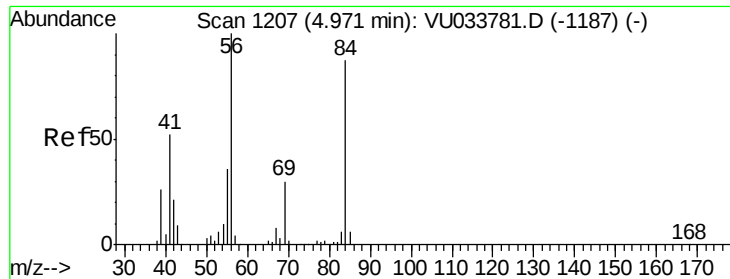
Tgt Ion: 83 Resp: 18464
Ion Ratio Lower Upper
83 100
85 63.9 45.6 84.6



#27
1,2-Dichloroethane
Concen: 2.377 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

Tgt Ion: 62 Resp: 10760
Ion Ratio Lower Upper
62 100
98 10.0 7.4 11.0

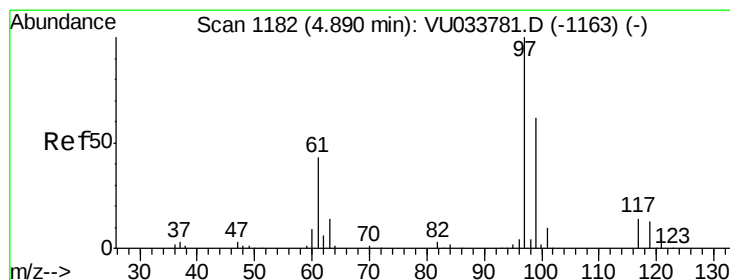
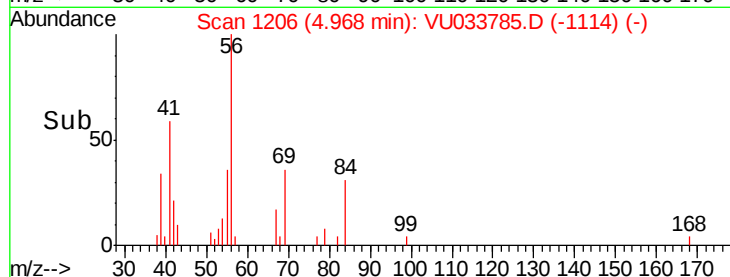
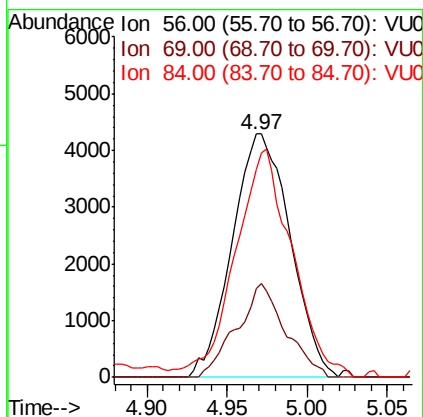
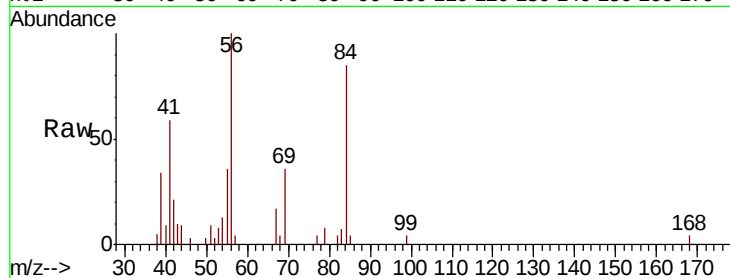




#29
Cyclohexane
Concen: 2.460 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

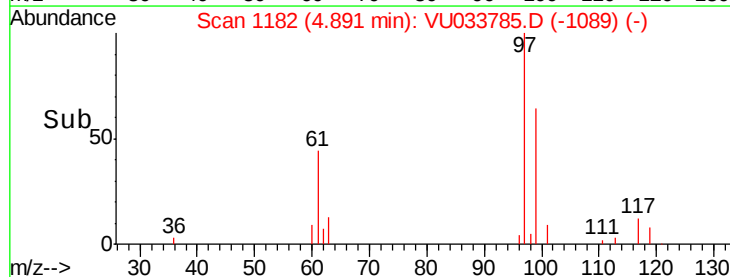
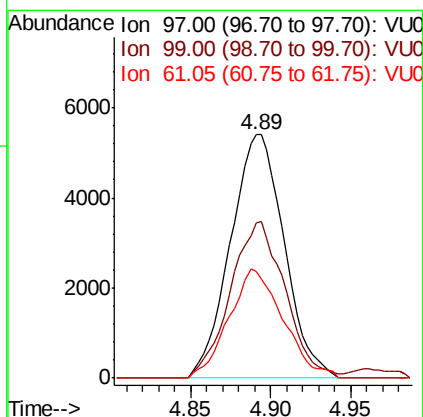
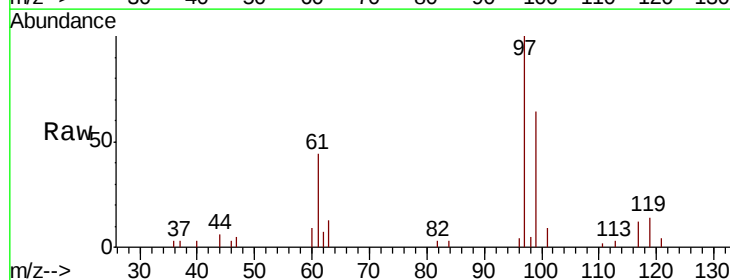
Instrument :
MSVOA_U
ClientSampleId :
MDL06

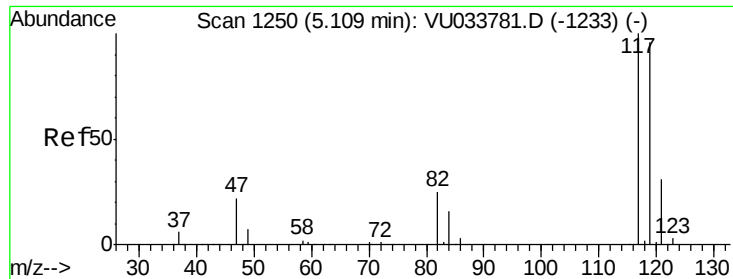
Tgt Ion: 56 Resp: 10665
Ion Ratio Lower Upper
56 100
69 32.3 25.0 37.4
84 92.2 70.3 105.5



#30
1,1,1-Trichloroethane
Concen: 2.568 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

Tgt Ion: 97 Resp: 12424
Ion Ratio Lower Upper
97 100
99 65.5 50.9 76.3
61 45.1 36.6 54.8

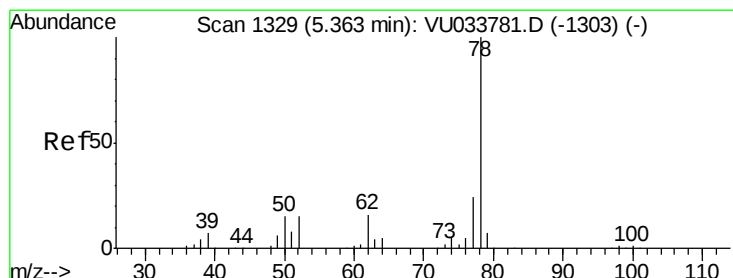
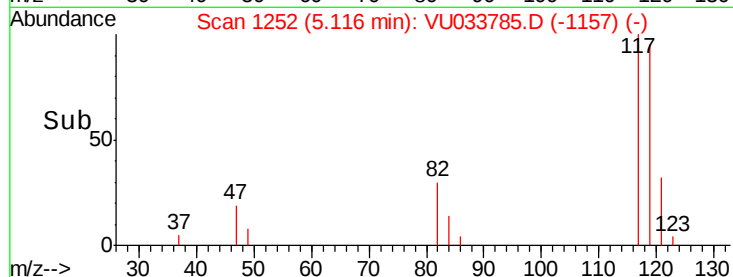
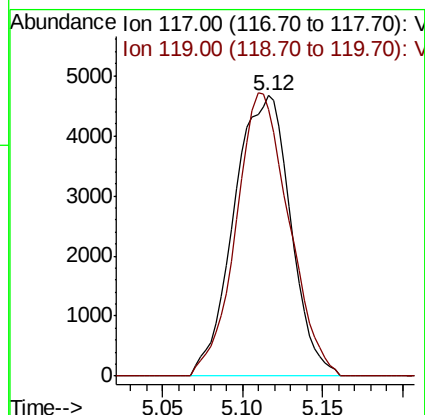
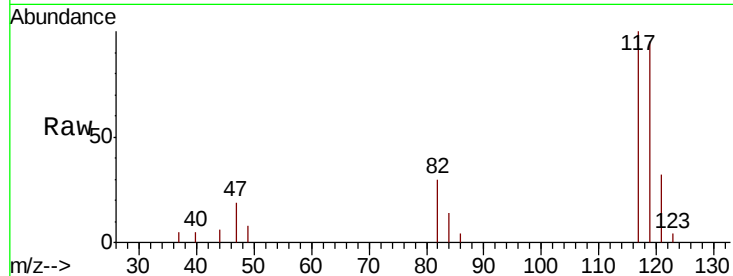




#31
Carbon tetrachloride
Concen: 2.627 ug/L
RT: 5.12 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

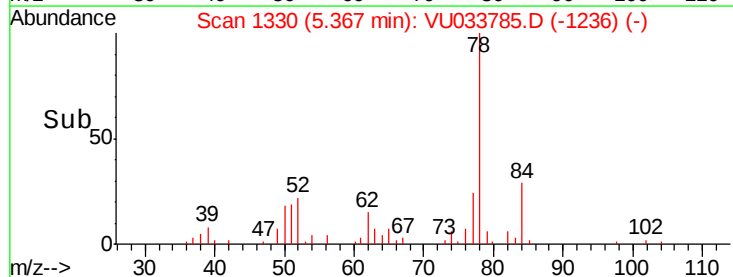
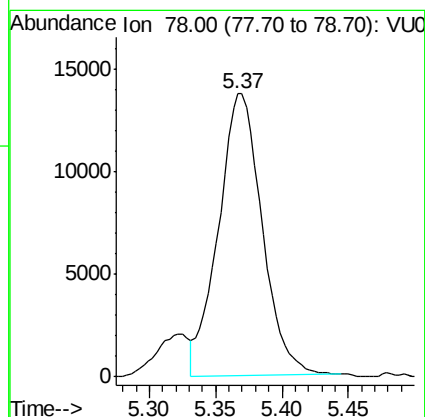
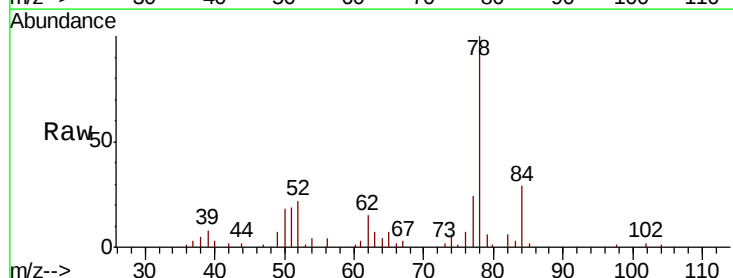
Instrument :
MSVOA_U
ClientSampleId :
MDL06

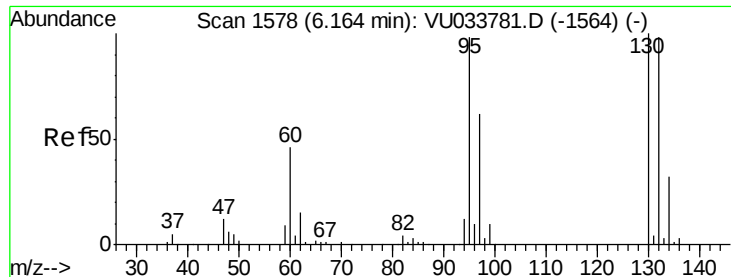
Tgt Ion:117 Resp: 11288
Ion Ratio Lower Upper
117 100
119 94.6 77.5 116.3



#33
Benzene
Concen: 2.604 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

Tgt Ion: 78 Resp: 31424





#34

Trichloroethene

Concen: 2.553 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tgt Ion: 95 Resp: 8161

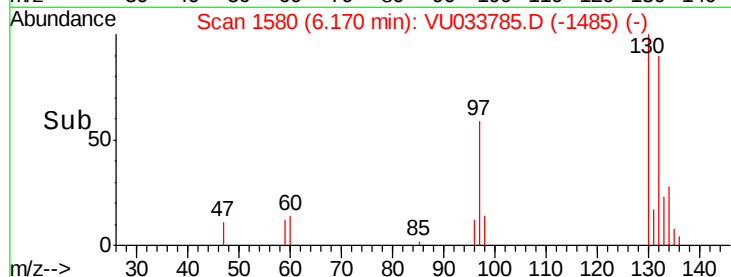
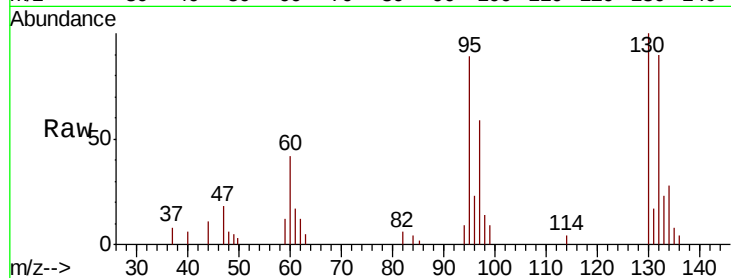
Ion Ratio Lower Upper

95 100

97 66.2 45.1 83.7

132 100.9 67.9 126.1

130 112.3 71.6 133.0

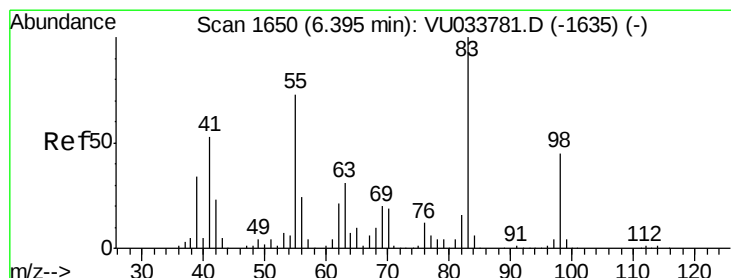
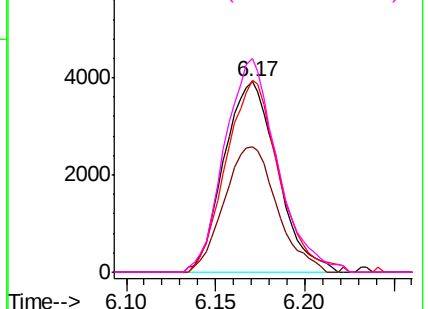


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 2.437 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

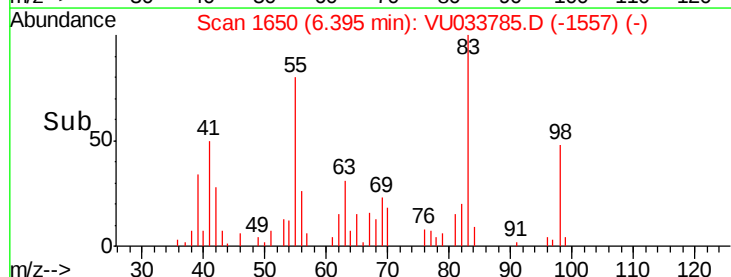
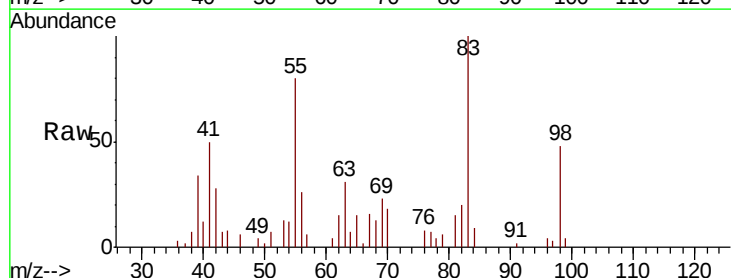
Tgt Ion: 83 Resp: 11356

Ion Ratio Lower Upper

83 100

55 76.2 62.2 93.4

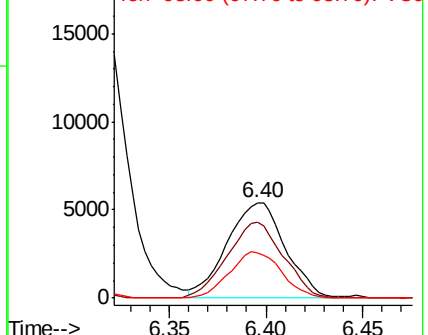
98 43.2 35.8 53.8

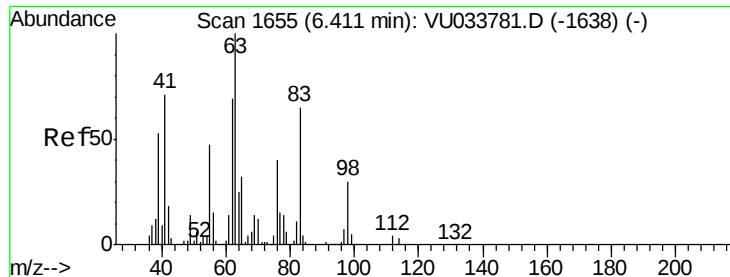


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

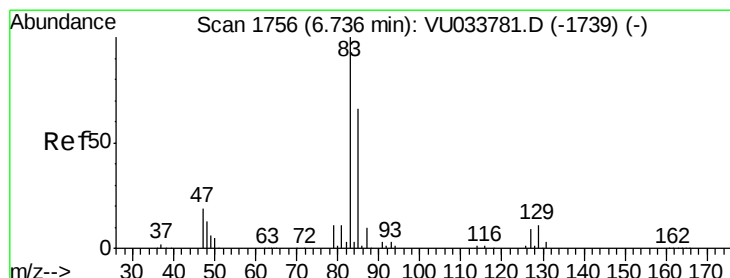
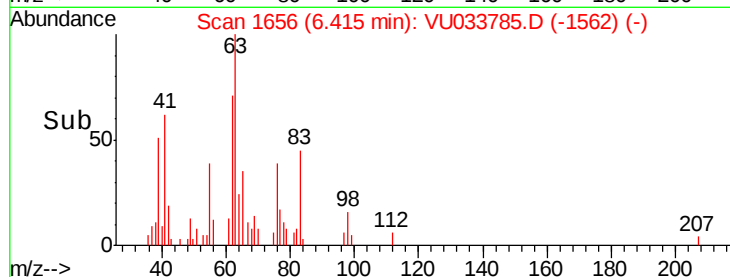
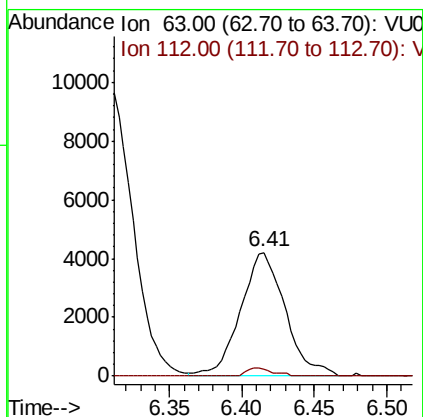
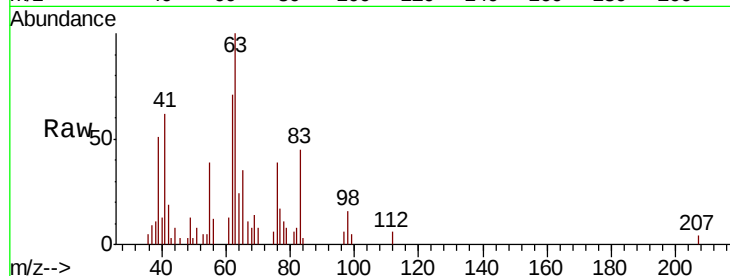




#37
 1,2-Dichloropropane
 Concen: 2.758 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

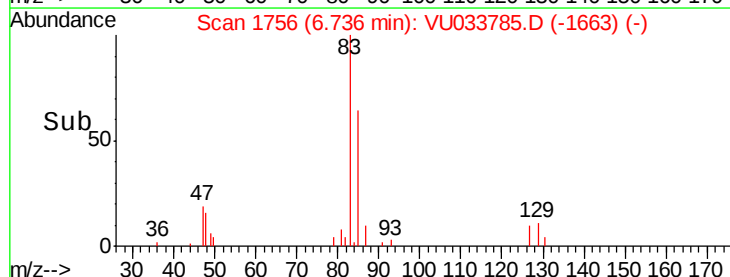
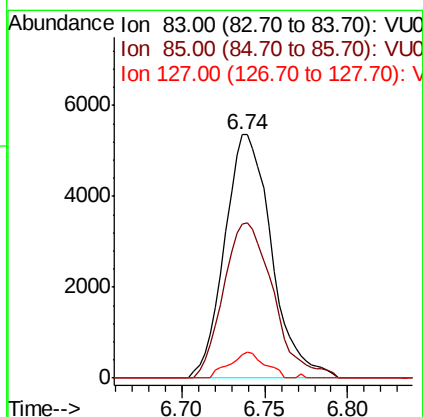
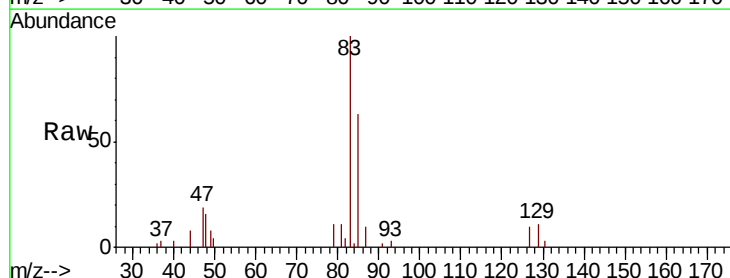
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

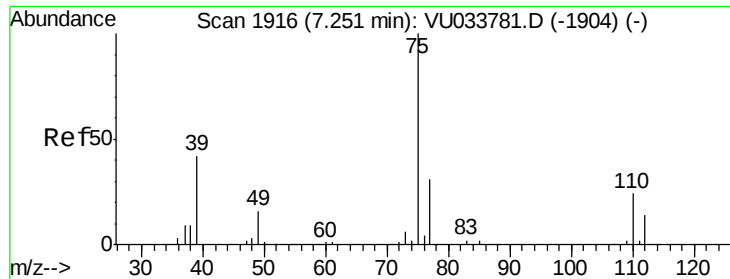
Tgt Ion: 63 Resp: 9069
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.0 4.6



#38
 Bromodichloromethane
 Concen: 2.484 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

Tgt Ion: 83 Resp: 10539
 Ion Ratio Lower Upper
 83 100
 85 63.0 45.8 85.0
 127 9.8 7.4 11.0

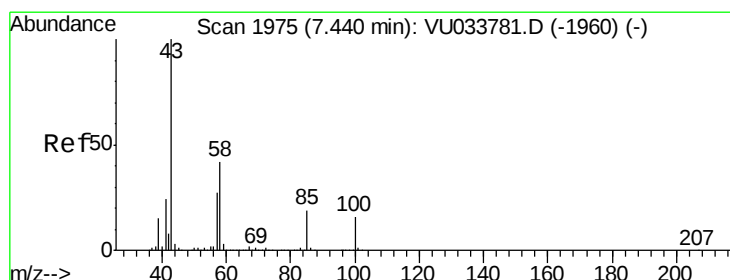
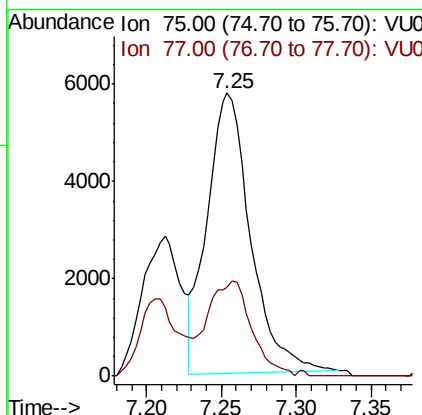
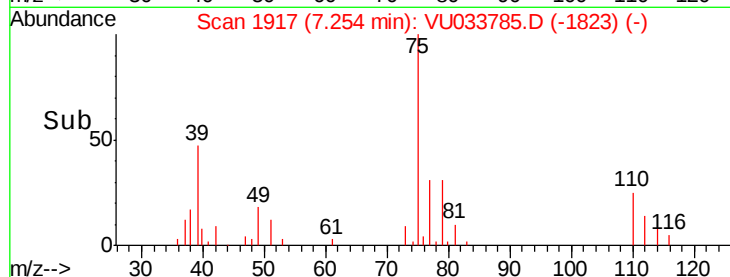
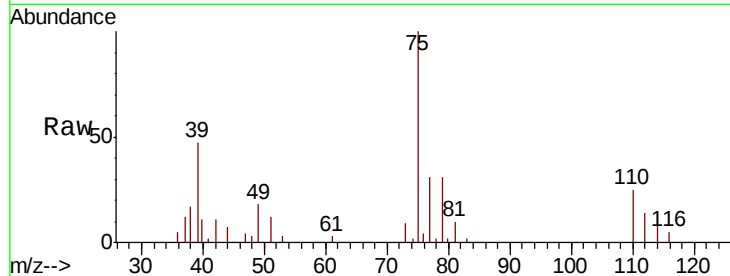




#39
 cis-1,3-Dichloropropene
 Concen: 2.406 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

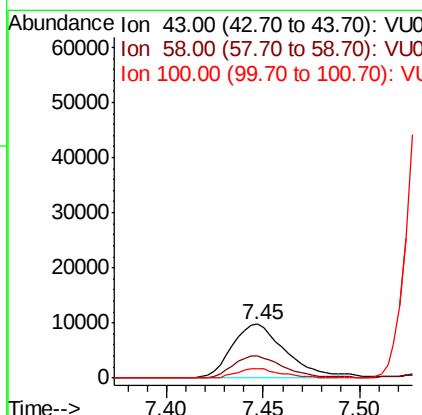
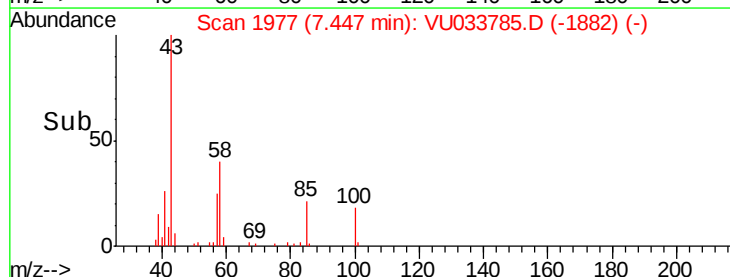
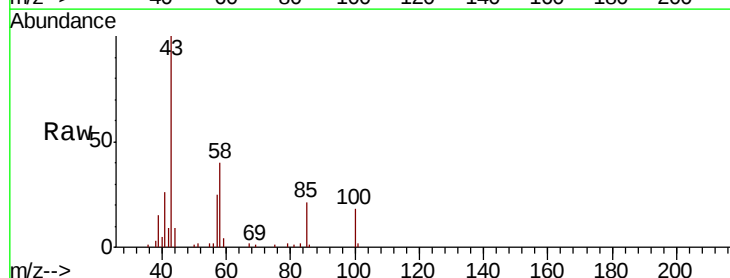
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

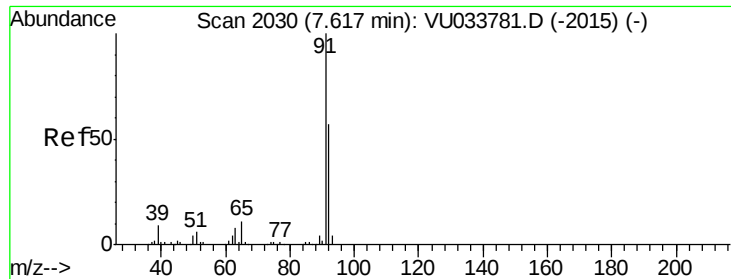
Tgt Ion: 75 Resp: 11681
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.0 40.8



#40
 4-Methyl-2-pentanone
 Concen: 4.596 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

Tgt Ion: 43 Resp: 18805
 Ion Ratio Lower Upper
 43 100
 58 39.9 32.5 48.7
 100 14.8 12.2 18.2





#42

Toluene

Concen: 2.574 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

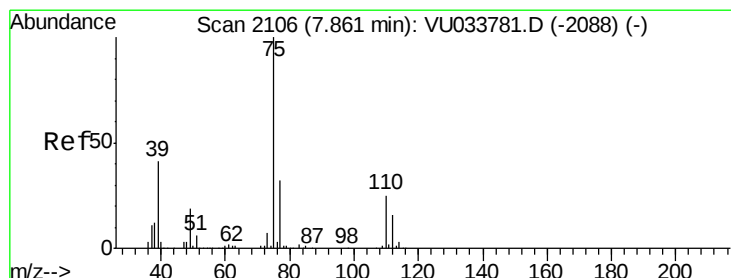
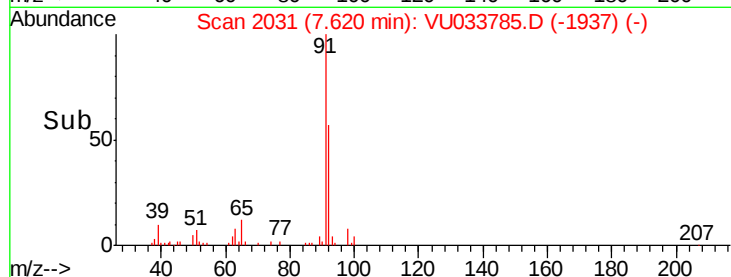
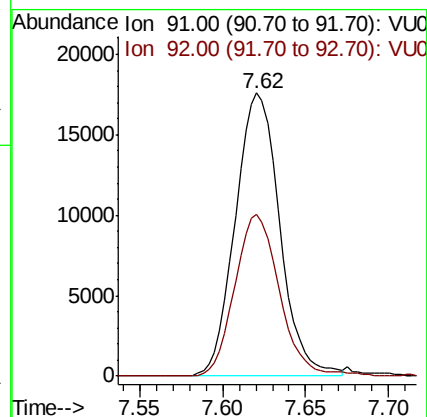
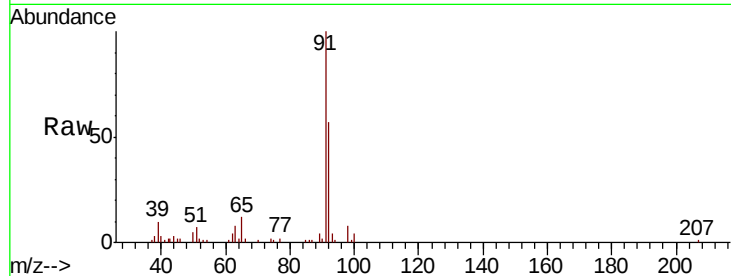
MDL06

Tgt Ion: 91 Resp: 32805

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 2.334 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033785.D

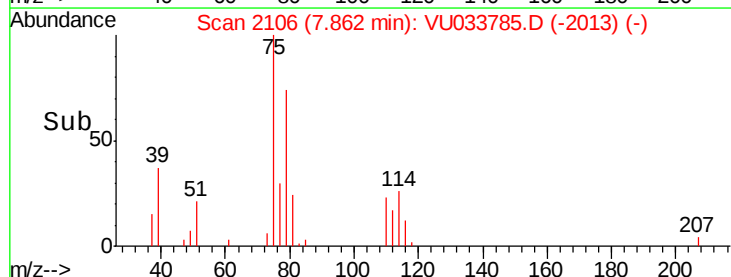
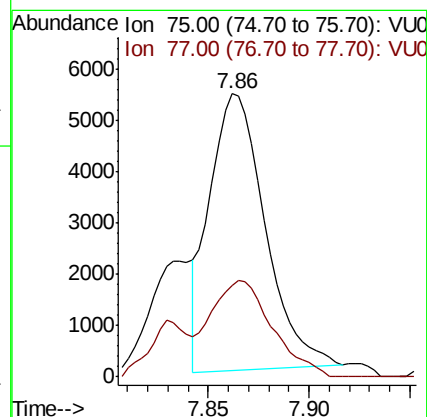
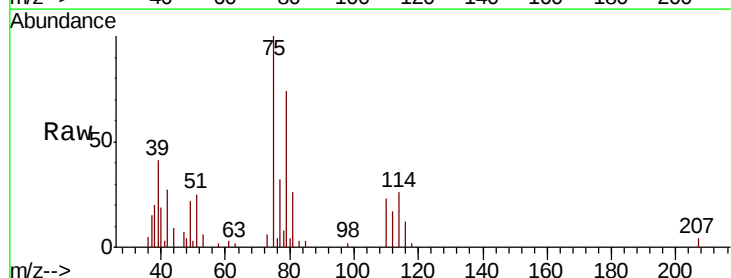
Acq: 13 Aug 2019 16:46

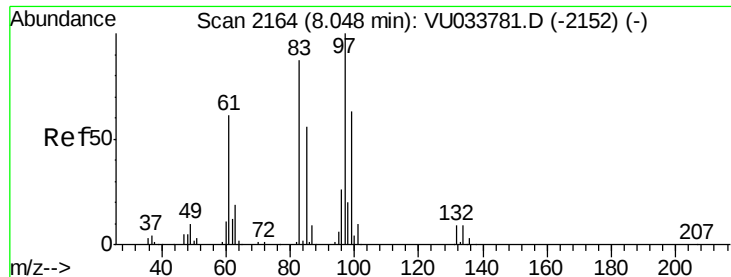
Tgt Ion: 75 Resp: 10321

Ion Ratio Lower Upper

75 100

77 32.4 22.7 42.3





#45

1,1,2-Trichloroethane

Concen: 2.415 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tgt Ion: 97 Resp: 7494

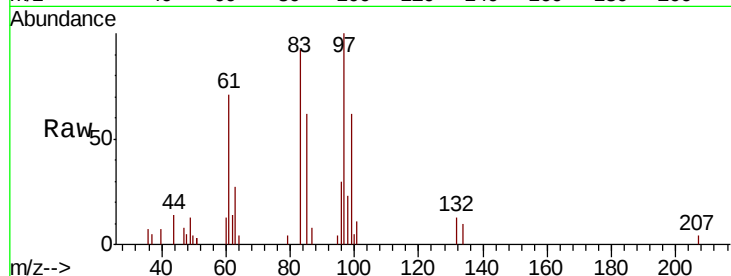
Ion Ratio Lower Upper

97 100

99 61.9 43.5 80.9

83 92.0 61.8 114.8

85 61.8 39.1 72.7

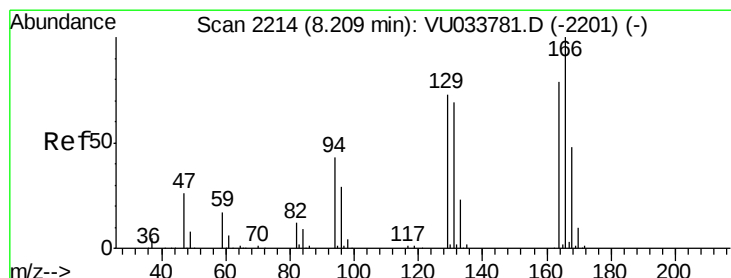
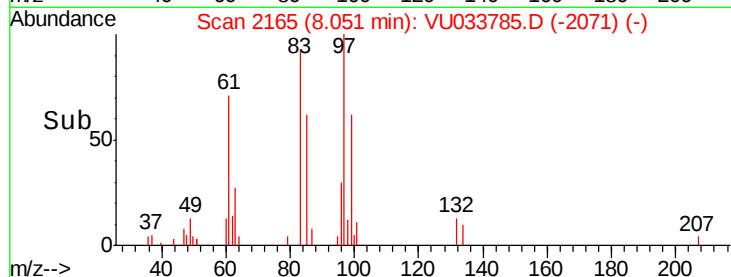
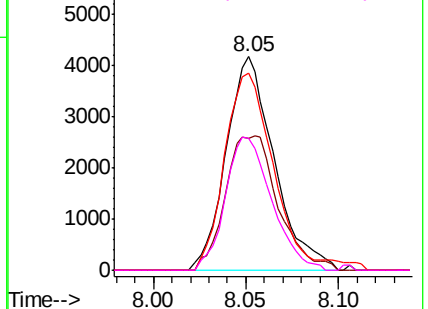


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 2.437 ug/L

RT: 8.21 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Tgt Ion: 164 Resp: 6110

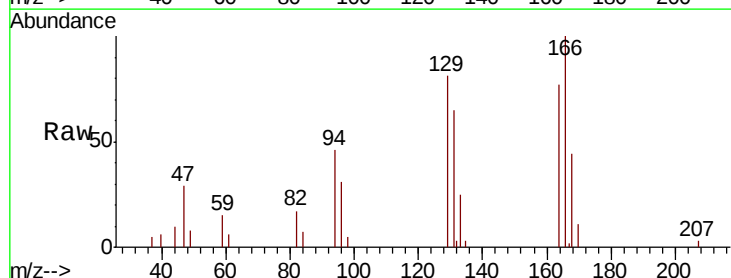
Ion Ratio Lower Upper

164 100

129 105.2 65.5 121.6

131 84.7 64.0 119.0

166 129.6 89.4 166.0

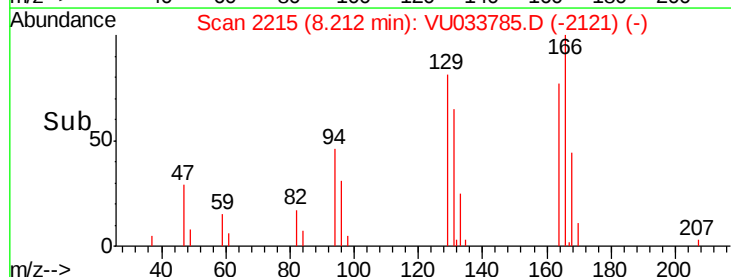
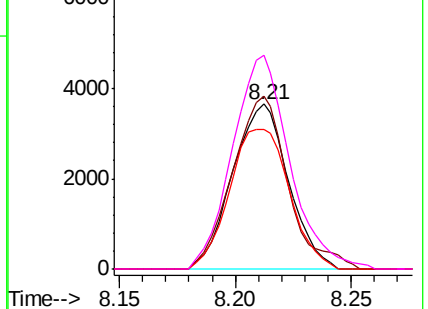


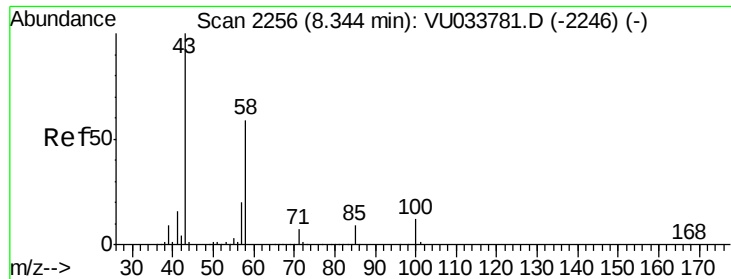
Abundance Ion 164.00 (163.70 to 164.70): V

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: 7.209 ug/L

RT: 8.35 min Scan# 2258

Delta R.T. 0.01 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tgt Ion: 43 Resp: 22576

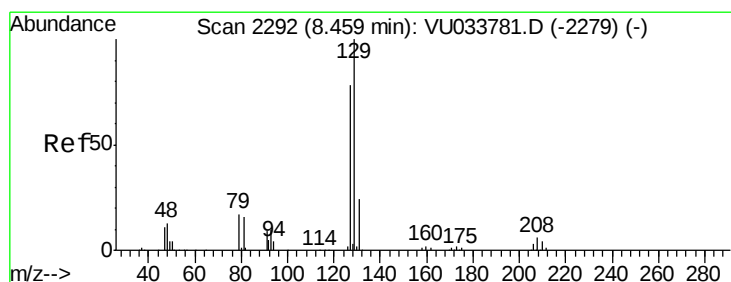
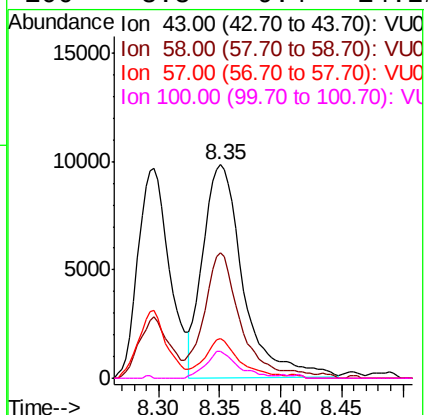
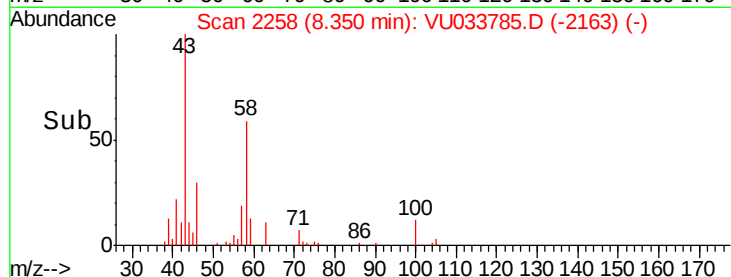
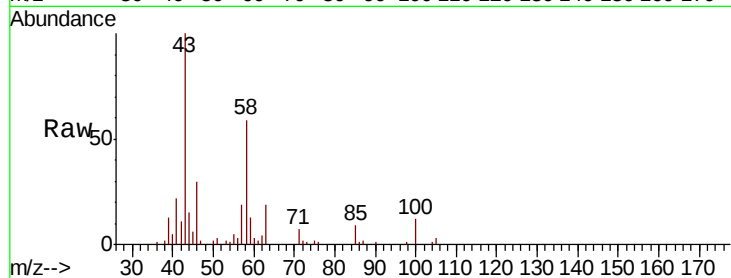
Ion Ratio Lower Upper

43 100

58 50.2 45.4 68.0

57 13.7 15.4 23.0#

100 8.8 9.4 14.2#



#49

Dibromochloromethane

Concen: 2.524 ug/L

RT: 8.46 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU033785.D

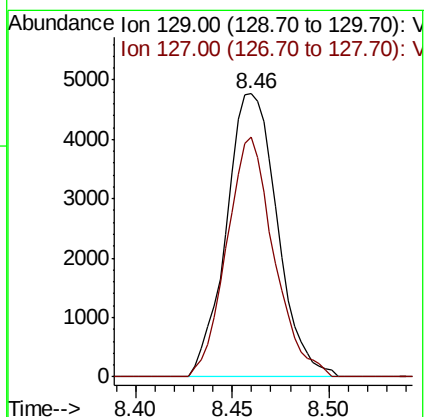
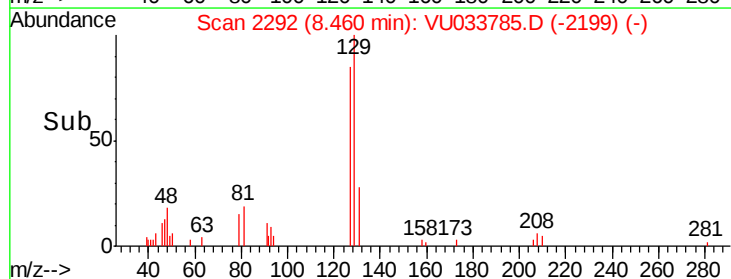
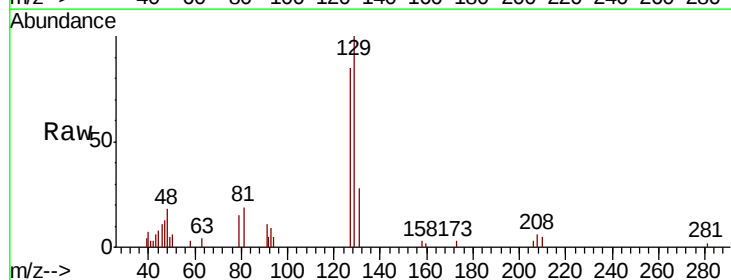
Acq: 13 Aug 2019 16:46

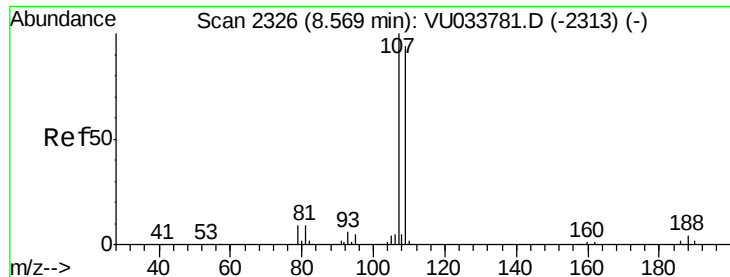
Tgt Ion: 129 Resp: 8745

Ion Ratio Lower Upper

129 100

127 84.7 54.4 101.0

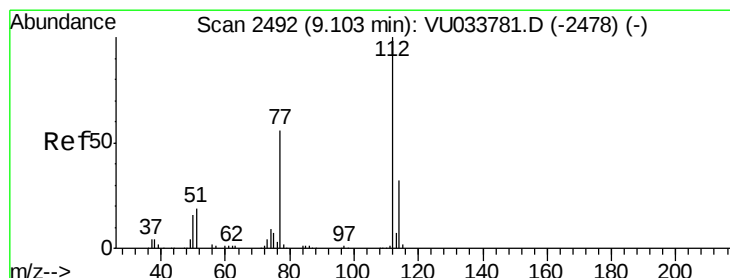
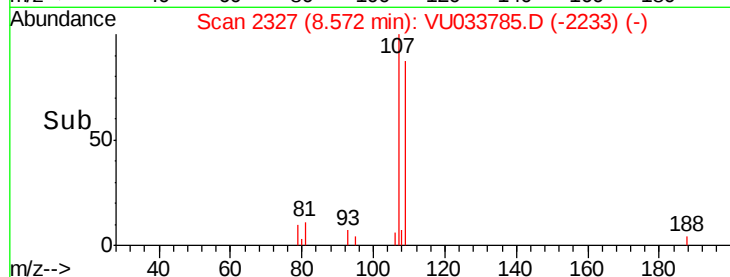
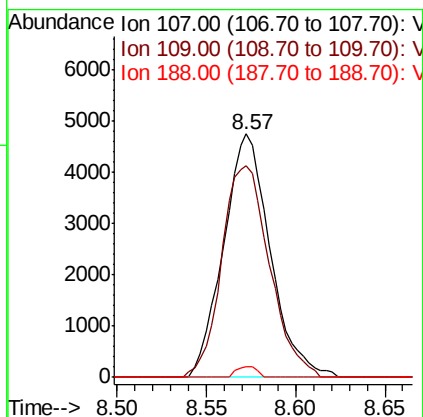
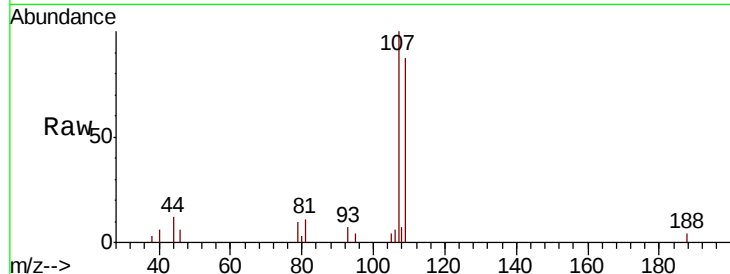




#50
1,2-Dibromoethane
Concen: 2.653 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

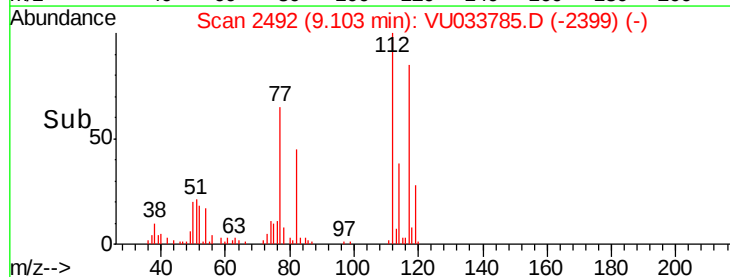
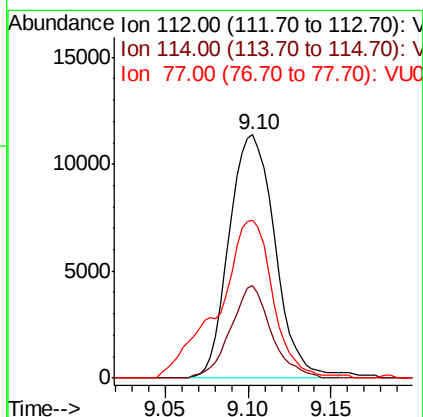
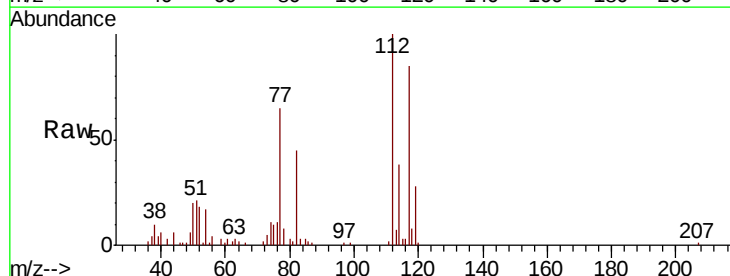
Instrument :
MSVOA_U
ClientSampleId :
MDL06

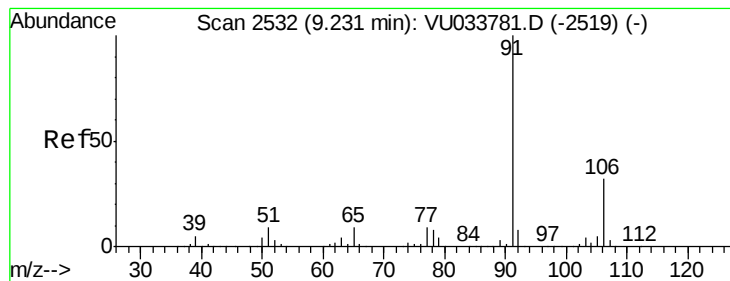
Tgt Ion:107 Resp: 8638
Ion Ratio Lower Upper
107 100
109 86.9 66.0 122.6
188 4.4 3.0 4.6



#51
Chlorobenzene
Concen: 2.644 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

Tgt Ion:112 Resp: 21931
Ion Ratio Lower Upper
112 100
114 38.1 22.4 41.6
77 64.8 46.2 69.4





#52

Ethylbenzene

Concen: 2.443 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampled :

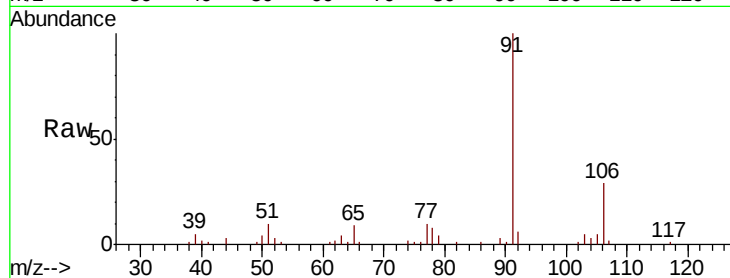
MDL06

Tgt Ion: 91 Resp: 32762

Ion Ratio Lower Upper

91 100

106 29.4 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU033785.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033785.D (-2519) (-)

9.23

20000

15000

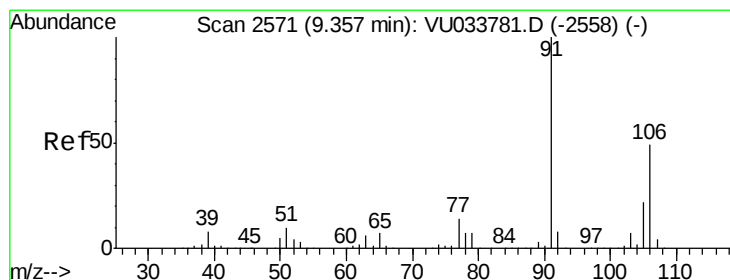
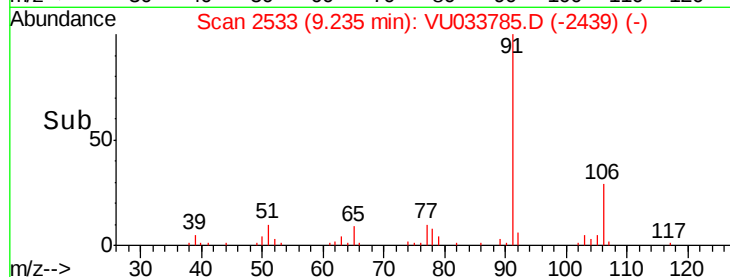
10000

5000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 2.323 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033785.D

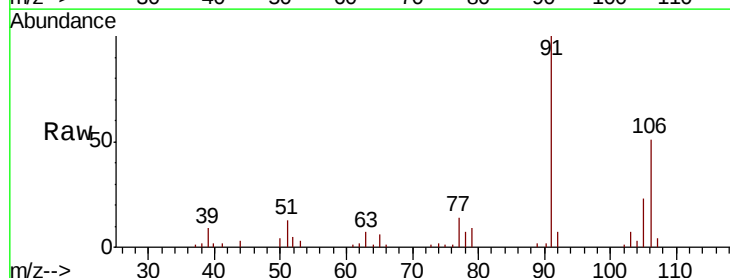
Acq: 13 Aug 2019 16:46

Tgt Ion: 106 Resp: 11646

Ion Ratio Lower Upper

106 100

91 195.0 142.1 263.9



Abundance Ion 106.00 (105.70 to 106.70): VU033785.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033785.D (-2558) (-)

9.36

15000

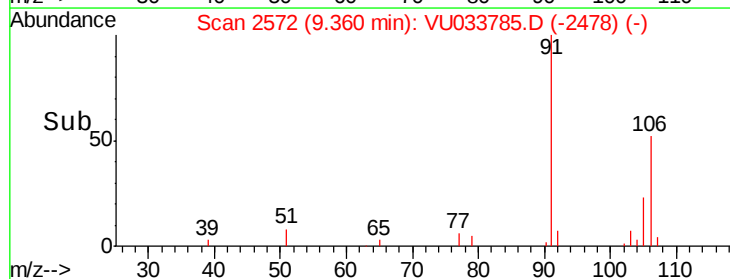
10000

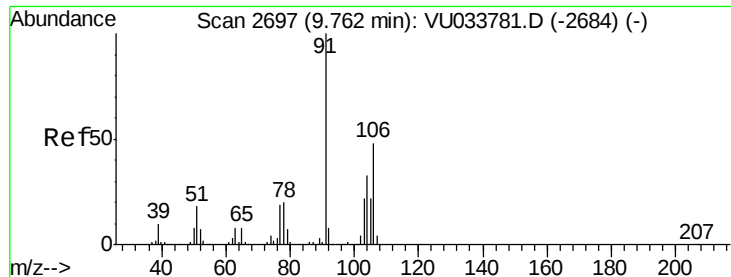
5000

0

9.30 9.35 9.40

Time-->





#54

o-xylene

Concen: 2.327 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

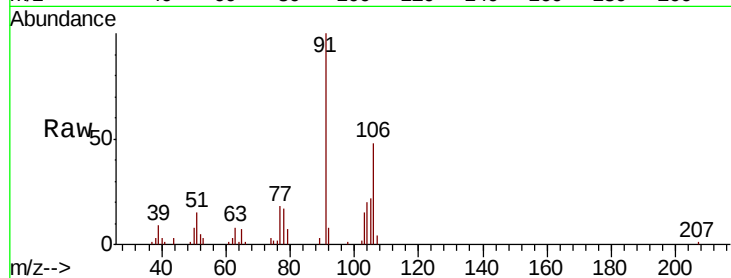
MDL06

Tgt Ion:106 Resp: 11479

Ion Ratio Lower Upper

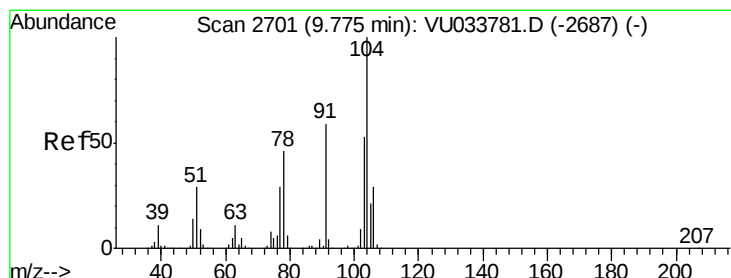
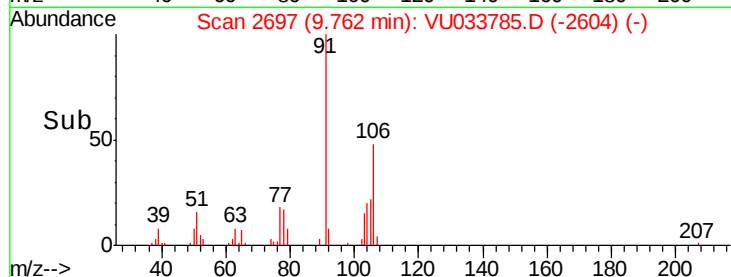
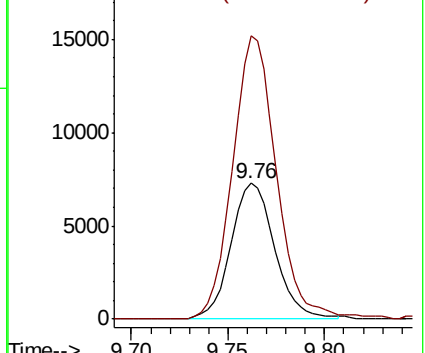
106 100

91 207.9 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.973 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033785.D

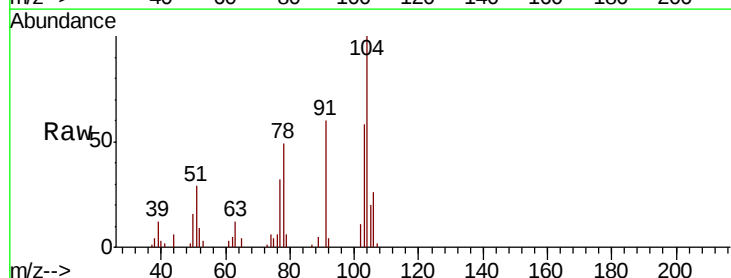
Acq: 13 Aug 2019 16:46

Tgt Ion:104 Resp: 16520

Ion Ratio Lower Upper

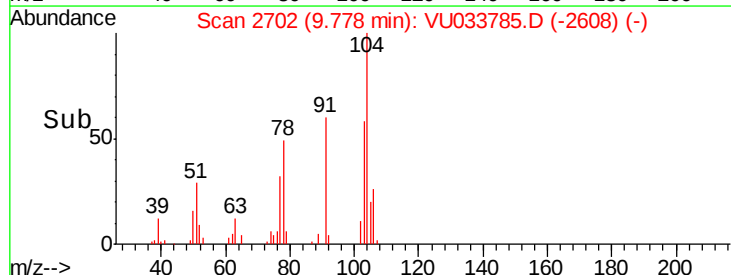
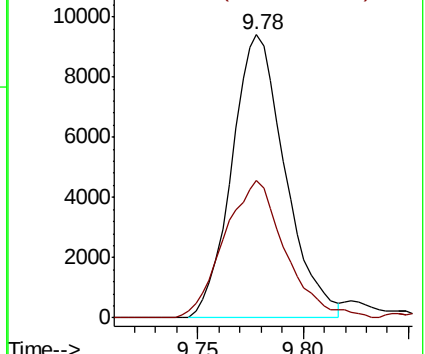
104 100

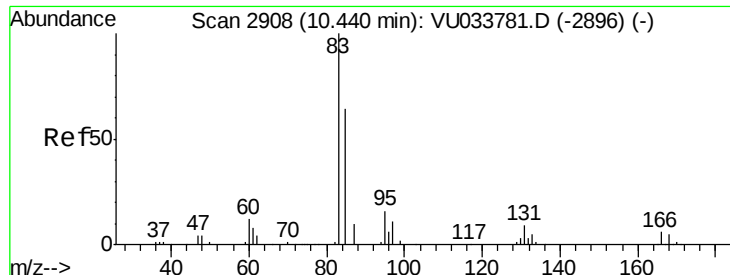
78 48.5 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

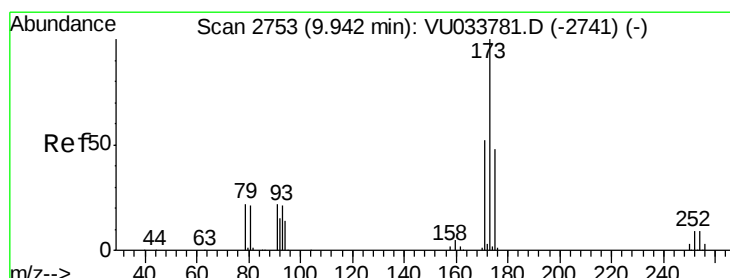
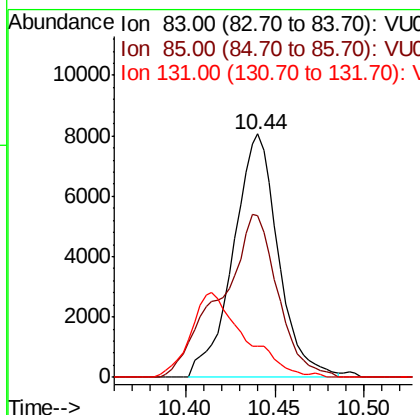
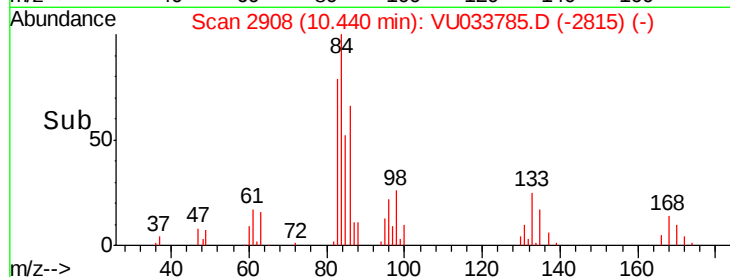
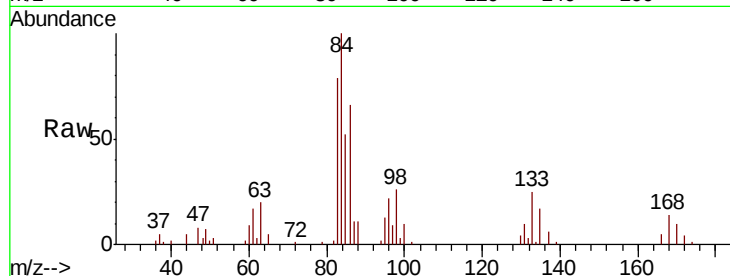




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.738 ug/L
 RT: 10.44 min Scan# 2908
 Delta R.T. 0.00 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

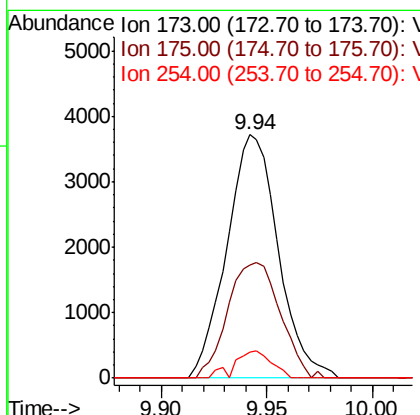
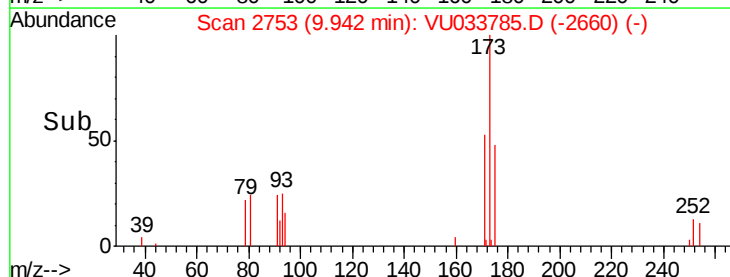
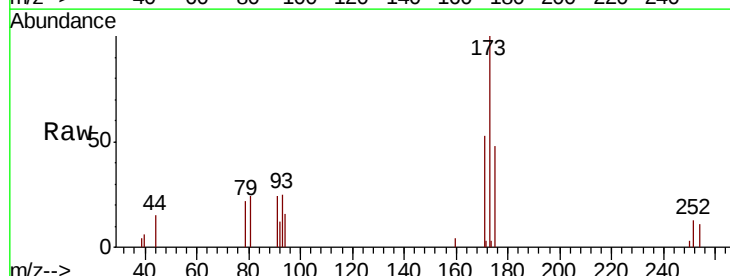
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL06

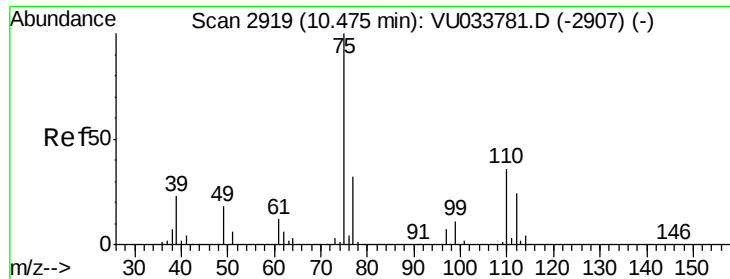
Tgt Ion: 83 Resp: 14214
 Ion Ratio Lower Upper
 83 100
 85 66.2 44.7 83.1
 131 12.6 7.8 11.6#



#59
 Bromoform
 Concen: 2.630 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

Tgt Ion: 173 Resp: 6295
 Ion Ratio Lower Upper
 173 100
 175 48.1 38.9 58.3
 254 7.1 7.4 11.0#





#60

1,2,3-Trichloropropane

Concen: 2.777 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

MDL06

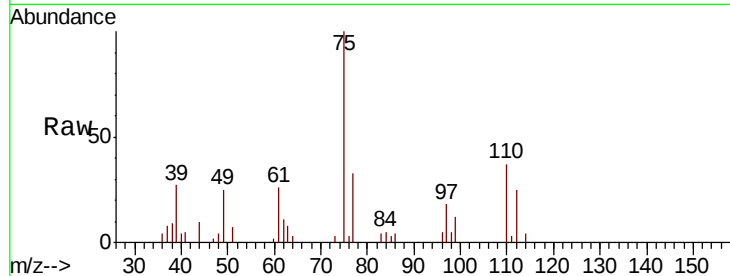
Tgt Ion: 75 Resp: 10467

Ion Ratio Lower Upper

75 100

77 34.5 25.6 38.4

110 38.2 29.7 44.5

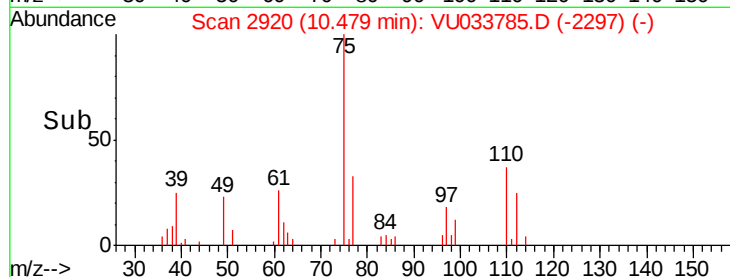


Abundance Ion 75.00 (74.70 to 75.70): VU033781.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033781.D (-2907) (-)

Ion 110.00 (109.70 to 110.70): VU033781.D (-2907) (-)

Time-->

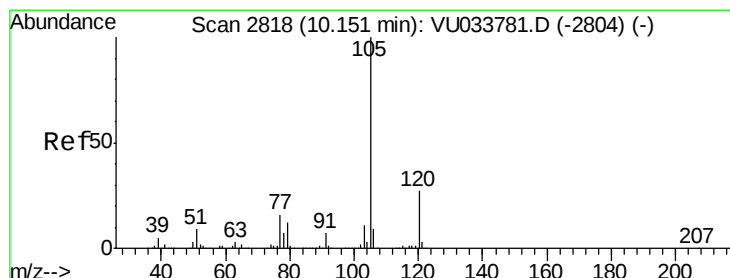


Abundance Ion 75.00 (74.70 to 75.70): VU033785.D (-2297) (-)

Ion 77.00 (76.70 to 77.70): VU033785.D (-2297) (-)

Ion 110.00 (109.70 to 110.70): VU033785.D (-2297) (-)

Time-->



#61

Isopropylbenzene

Concen: 2.362 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

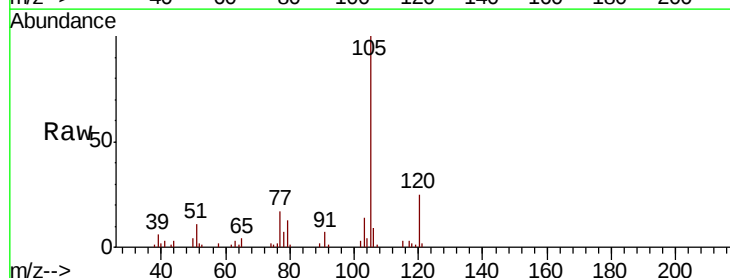
Tgt Ion: 105 Resp: 27398

Ion Ratio Lower Upper

105 100

120 24.7 21.0 31.6

77 16.7 12.8 19.2

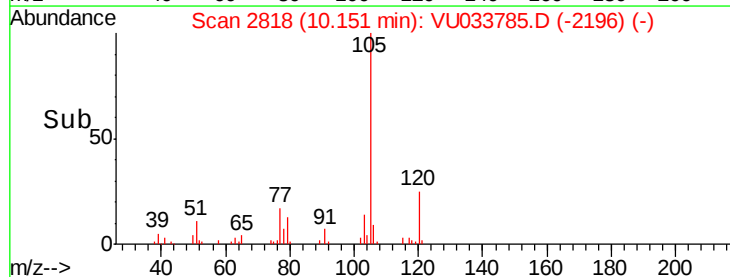


Abundance Ion 105.00 (104.70 to 105.70): VU033781.D (-2804) (-)

Ion 120.00 (119.70 to 120.70): VU033781.D (-2804) (-)

Ion 77.00 (76.70 to 77.70): VU033781.D (-2804) (-)

Time-->

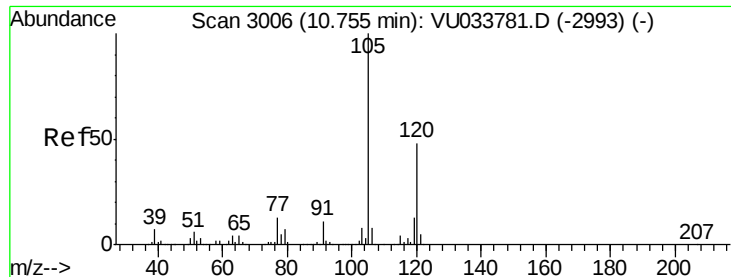


Abundance Ion 105.00 (104.70 to 105.70): VU033785.D (-2196) (-)

Ion 120.00 (119.70 to 120.70): VU033785.D (-2196) (-)

Ion 77.00 (76.70 to 77.70): VU033785.D (-2196) (-)

Time-->



#62

1,3,5-Trimethylbenzene

Concen: 2.278 ug/L

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

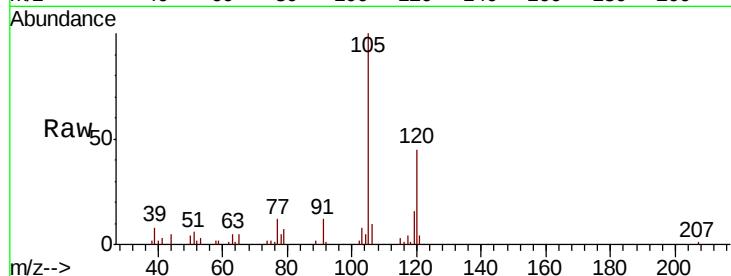
MDL06

Tgt Ion:105 Resp: 21329

Ion Ratio Lower Upper

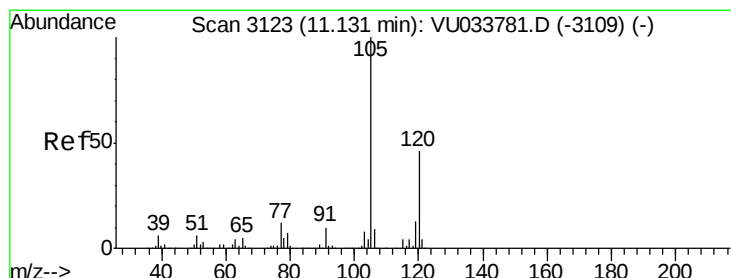
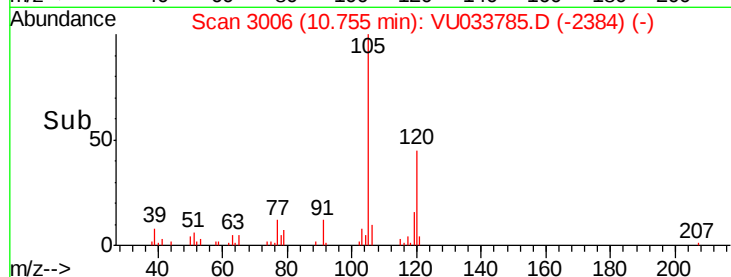
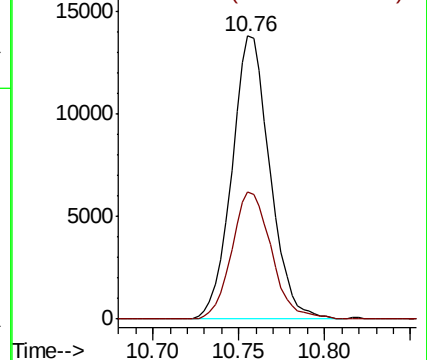
105 100

120 46.9 39.4 59.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.152 ug/L

RT: 11.13 min Scan# 3123

Delta R.T. 0.00 min

Lab File: VU033785.D

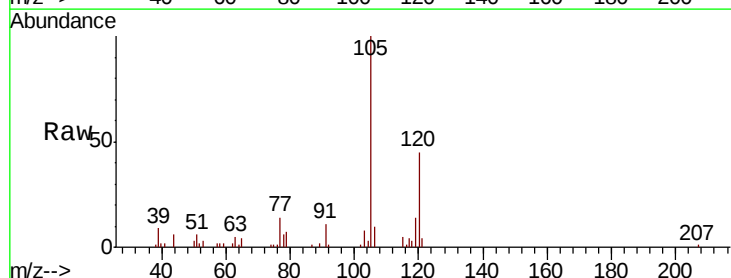
Acq: 13 Aug 2019 16:46

Tgt Ion:105 Resp: 19994

Ion Ratio Lower Upper

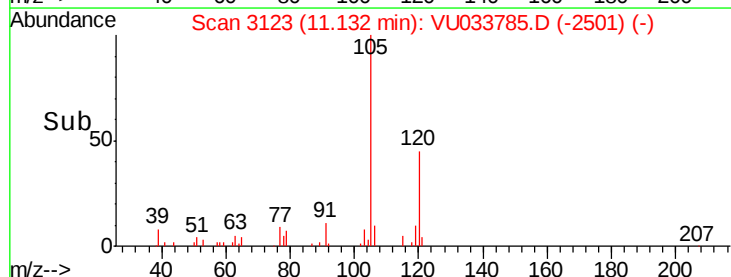
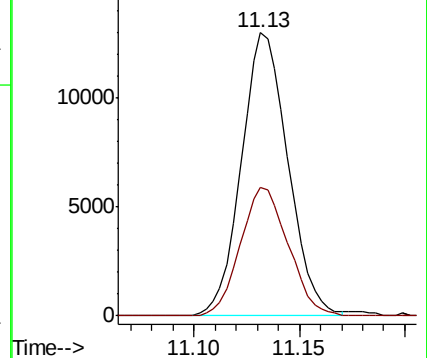
105 100

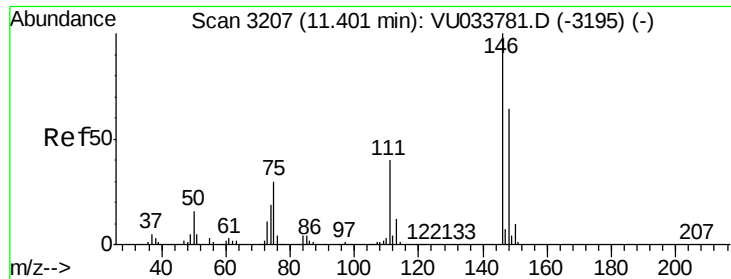
120 46.4 36.6 55.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

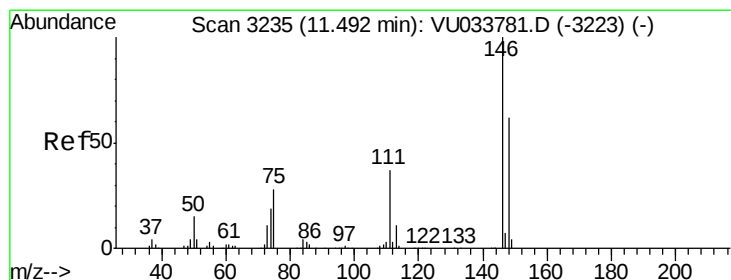
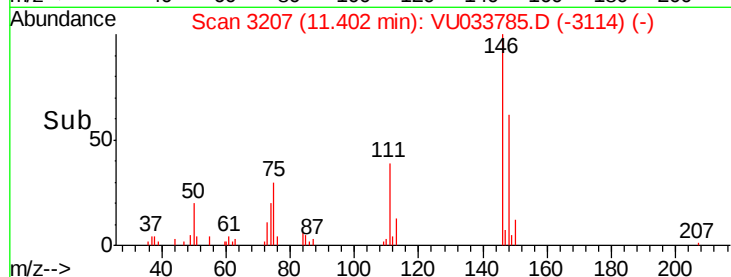
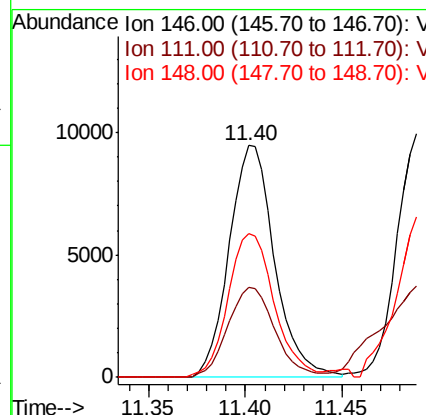
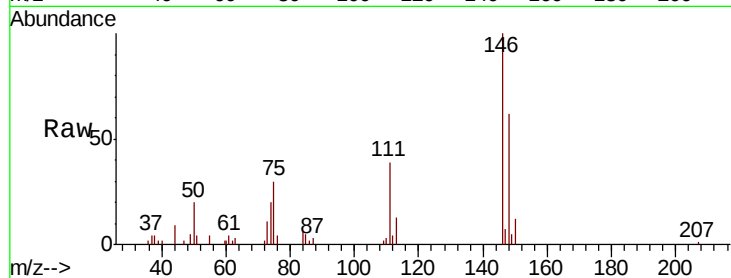




#64
 1,3-Dichlorobenzene
 Concen: 2.658 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

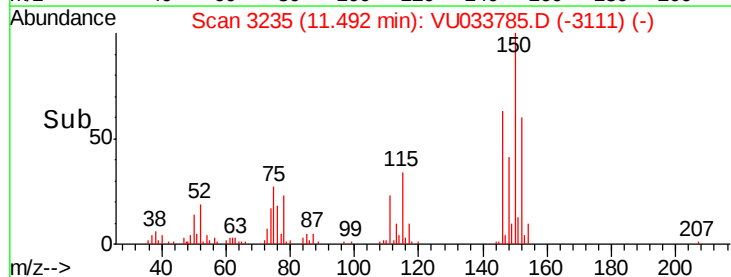
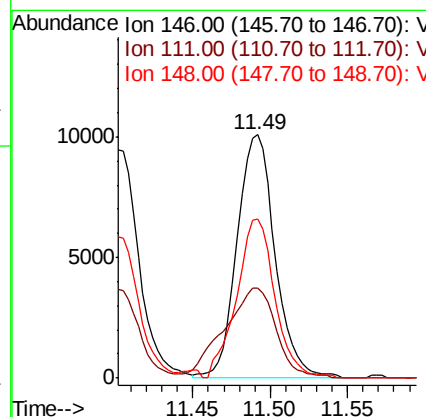
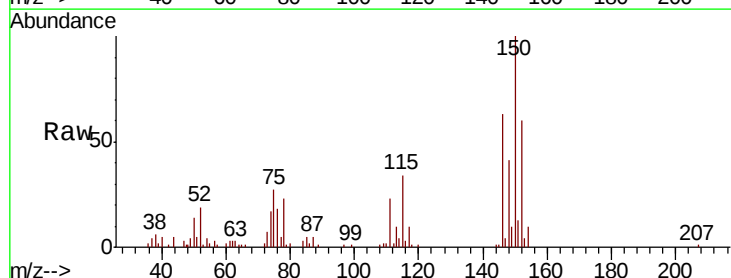
Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

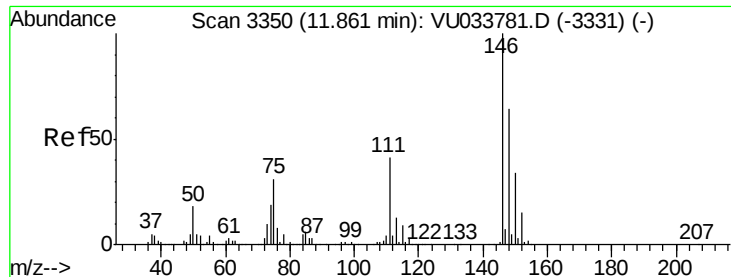
Tgt Ion:146 Resp: 15468
 Ion Ratio Lower Upper
 146 100
 111 39.0 27.1 50.3
 148 62.1 45.0 83.6



#65
 1,4-Dichlorobenzene
 Concen: 2.890 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

Tgt Ion:146 Resp: 17234
 Ion Ratio Lower Upper
 146 100
 111 37.1 26.5 49.3
 148 65.4 43.9 81.5





#67

1,2-Dichlorobenzene

Concen: 2.910 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

Instrument :

MSVOA_U

ClientSampled :

MDL06

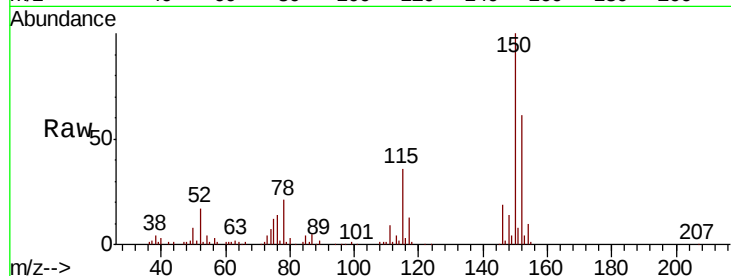
Tgt Ion: 146 Resp: 17205

Ion Ratio Lower Upper

146 100

111 48.9 33.1 49.7

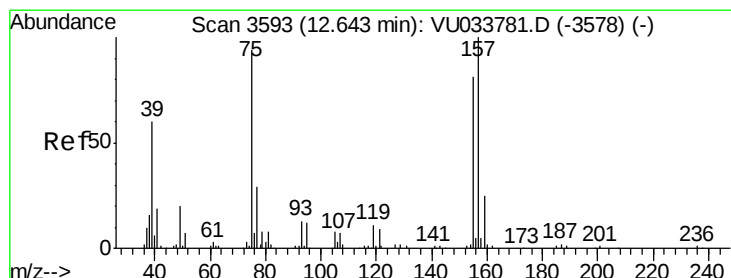
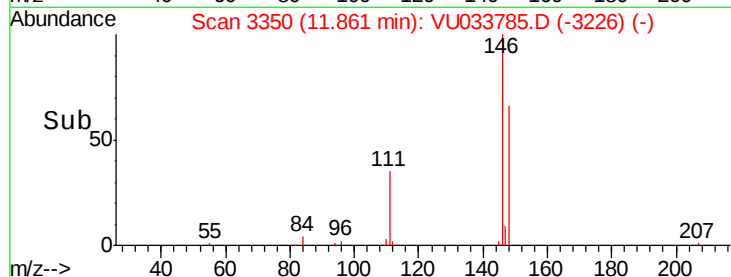
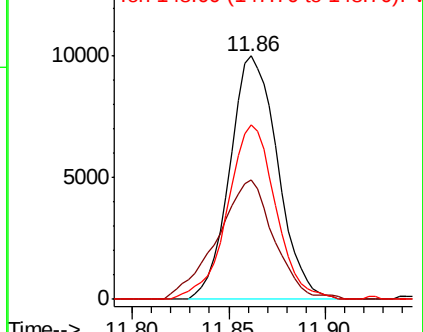
148 71.5 51.8 77.8



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



#68

1,2-Dibromo-3-chloropropane

Concen: 2.546 ug/L

RT: 12.65 min Scan# 3595

Delta R.T. 0.01 min

Lab File: VU033785.D

Acq: 13 Aug 2019 16:46

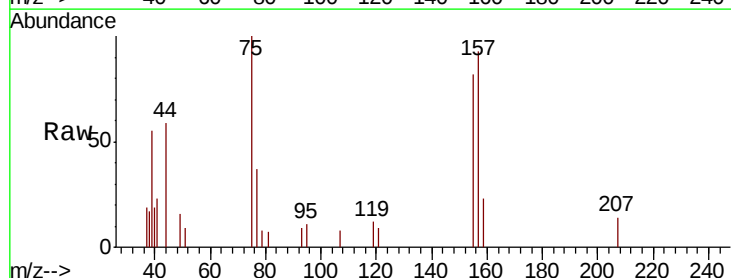
Tgt Ion: 75 Resp: 2677

Ion Ratio Lower Upper

75 100

155 81.6 65.9 98.9

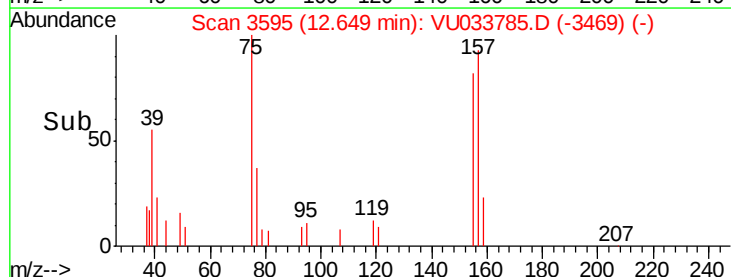
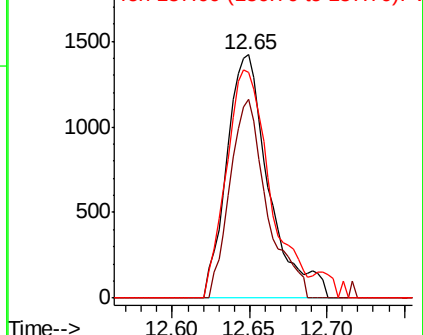
157 92.5 86.3 129.5

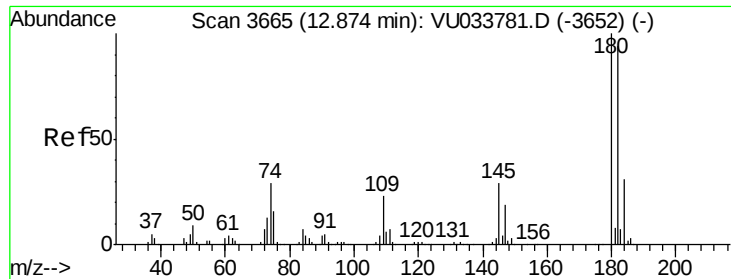


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

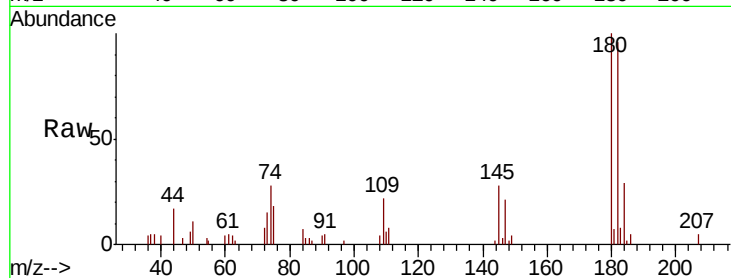




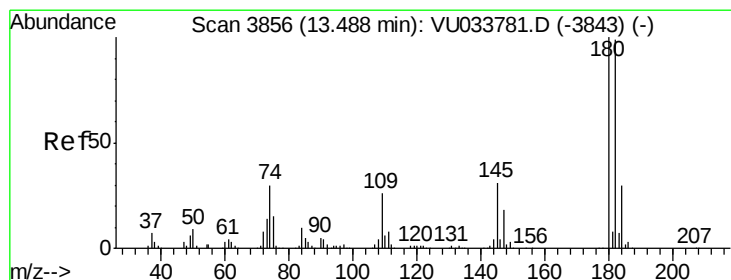
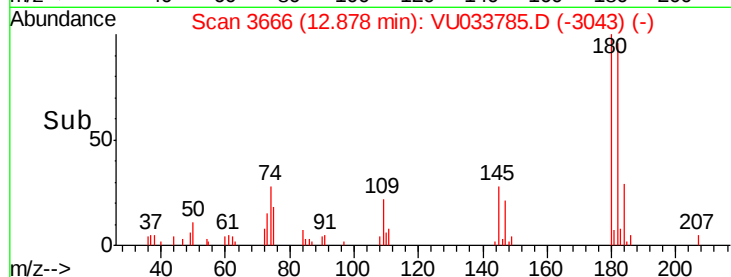
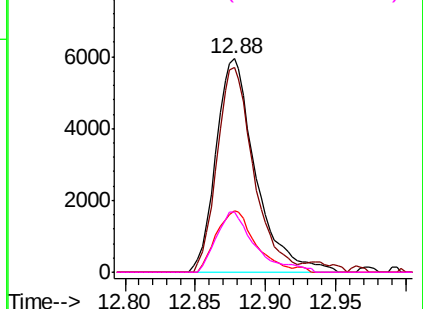
#69
 1,3,5-Trichlorobenzene
 Concen: 2.637 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tgt Ion:180 Resp: 11591
 Ion Ratio Lower Upper
 180 100
 182 88.4 77.2 115.8
 184 28.2 24.5 36.7
 145 26.0 23.4 35.0

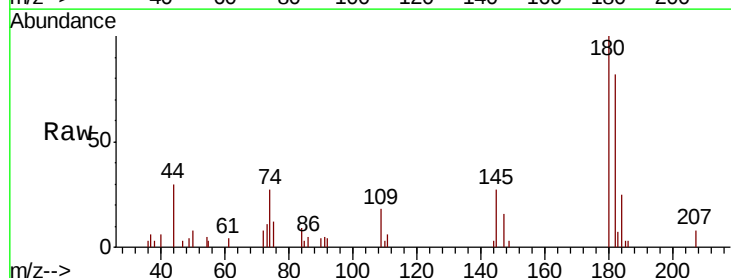


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

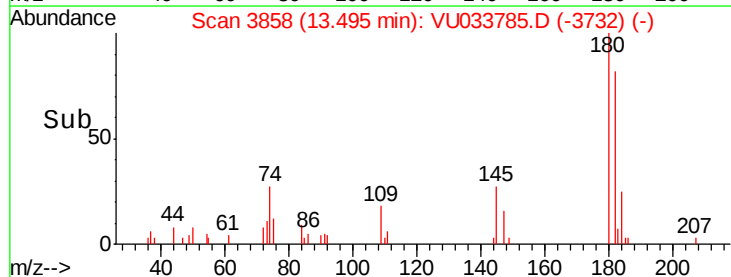
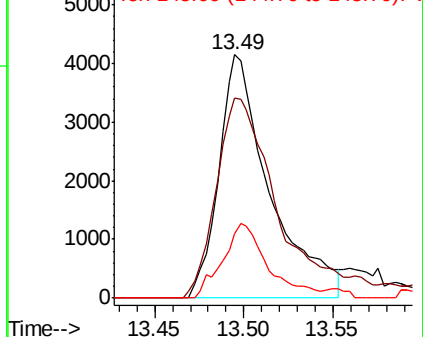


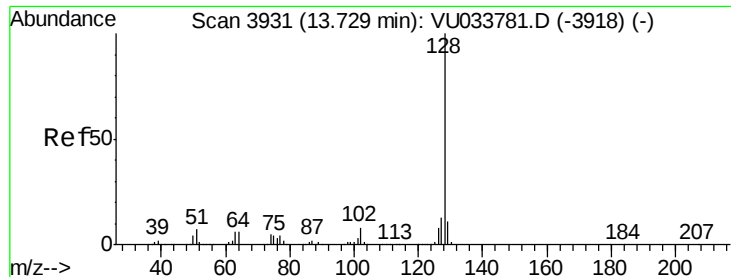
#70
 1,2,4-trichlorobenzene
 Concen: 2.253 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033785.D
 Acq: 13 Aug 2019 16:46

Tgt Ion:180 Resp: 8211
 Ion Ratio Lower Upper
 180 100
 182 97.3 75.3 112.9
 145 27.3 23.3 34.9



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

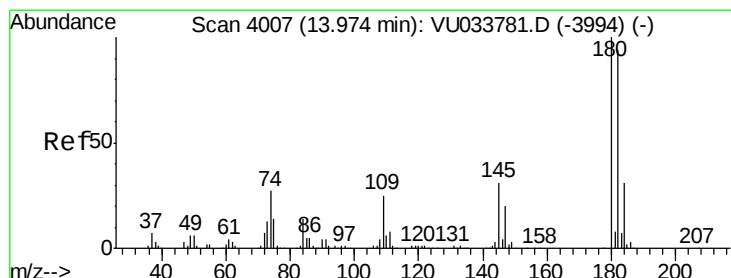
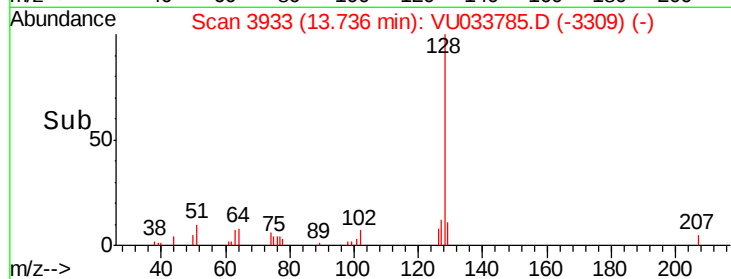
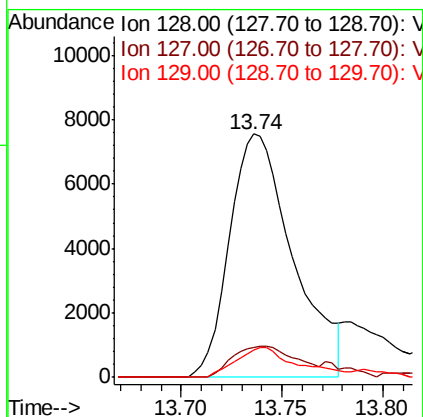
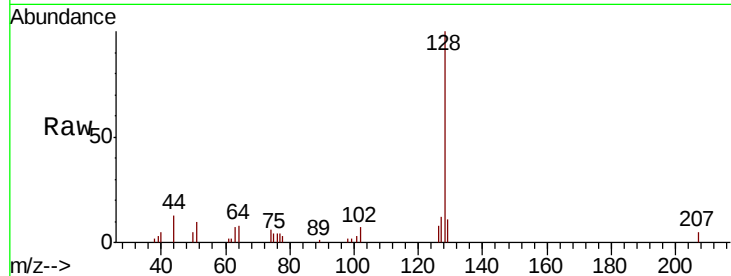




#71
Naphthalene
Concen: 1.528 ug/L
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tgt Ion:128 Resp: 16574
Ion Ratio Lower Upper
128 100
127 12.7 11.0 16.4
129 11.8 8.5 12.7



#72
1,2,3-Trichlorobenzene
Concen: 2.423 ug/L
RT: 13.98 min Scan# 4008
Delta R.T. 0.00 min
Lab File: VU033785.D
Acq: 13 Aug 2019 16:46

Tgt Ion:180 Resp: 9258
Ion Ratio Lower Upper
180 100
182 84.4 77.1 115.7
145 26.7 24.6 36.8

