

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073019\
 Data File : VU033488.D
 Acq On : 30 Jul 2019 12:35
 Operator : JC/SP
 Sample : MDL04
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Quant Time: Jul 31 08:49:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	293902	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	299828	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	138712	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	116582	43.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.38%
7) Chloroethane-d5	1.67	69	102958	46.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.38%
11) 1,1-Dichloroethene-d2	2.26	63	152456	31.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	62.48%
21) 2-Butanone-d5	4.15	46	145328	95.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.03%
24) Chloroform-d	4.62	84	182300	45.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.28%
26) 1,2-Dichloroethane-d4	5.29	65	123897	48.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.16%
32) Benzene-d6	5.32	84	384147	47.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.46%
36) 1,2-Dichloropropane-d6	6.31	67	122060	48.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.78%
41) Toluene-d8	7.55	98	346649	45.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.62%
43) trans-1,3-Dichloropropene-	7.83	79	55987	45.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.78%
47) 2-Hexanone-d5	8.30	63	106364	102.56	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.56%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	183747	47.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.92%
66) 1,2-Dichlorobenzene-d4	11.85	152	136498	51.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.42%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6578	2.243 ug/L	99
3) Chloromethane	1.32	50	6758	2.308 ug/L	99
5) Vinyl chloride	1.40	62	8016	2.394 ug/L #	77
6) Bromomethane	1.62	94	4774	2.040 ug/L	94
8) Chloroethane	1.69	64	4932	2.401 ug/L	92
9) Trichlorofluoromethane	1.87	101	10449	2.379 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6305	2.857 ug/L #	79
12) 1,1-Dichloroethene	2.27	96	5882	2.736 ug/L #	1
13) Acetone	2.31	43	7247	4.782 ug/L	96
14) Carbon disulfide	2.46	76	14681	2.292 ug/L	96
15) Methyl Acetate	2.60	43	4983	2.050 ug/L	96
16) Methylene chloride	2.68	84	5797	2.454 ug/L	94
17) trans-1,2-Dichloroethene	2.96	96	4522	2.117 ug/L	92
18) Methyl tert-butyl Ether	2.98	73	13825	2.194 ug/L	97
19) 1,1-Dichloroethane	3.42	63	8927	2.220 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	5341	2.266 ug/L	92
22) 2-Butanone	4.26	43	7108	3.947 ug/L	83

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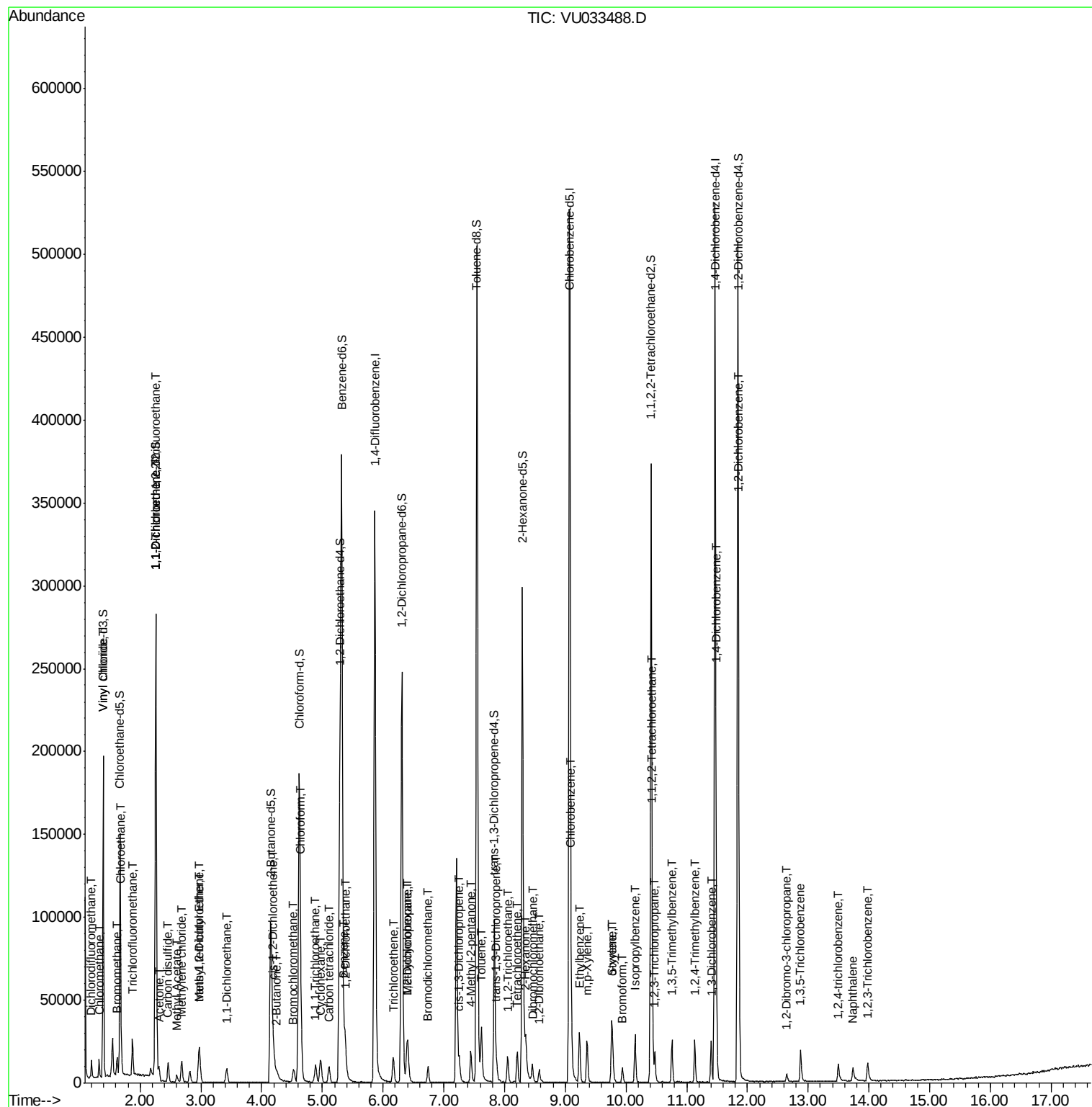
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	2871	2.293	ug/L	86
25) Chloroform	4.65	83	21356	5.009	ug/L	99
27) 1,2-Dichloroethane	5.39	62	7737	2.337	ug/L #	94
29) Cyclohexane	4.97	56	6980	2.119	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	8126	2.276	ug/L	99
31) Carbon tetrachloride	5.11	117	7004	2.204	ug/L	99
33) Benzene	5.37	78	20598	2.298	ug/L	100
34) Trichloroethene	6.17	95	5335	2.285	ug/L	91
35) Methylcyclohexane	6.40	83	7364	2.074	ug/L	99
37) 1,2-Dichloropropane	6.41	63	5419	2.248	ug/L	99
38) Bromodichloromethane	6.74	83	7201	2.270	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	8063	2.243	ug/L	93
40) 4-Methyl-2-pentanone	7.44	43	13929	4.385	ug/L	92
42) Toluene	7.62	91	22530	2.336	ug/L	94
44) trans-1,3-Dichloropropene	7.87	75	6790	2.081	ug/L	90
45) 1,1,2-Trichloroethane	8.05	97	5281	2.297	ug/L	93
46) Tetrachloroethene	8.21	164	4225	2.224	ug/L	91
48) 2-Hexanone	8.35	43	14728	5.691	ug/L	95
49) Dibromochloromethane	8.46	129	5469	2.125	ug/L	100
50) 1,2-Dibromoethane	8.57	107	5593	2.243	ug/L #	96
51) Chlorobenzene	9.10	112	13925	2.173	ug/L	96
52) Ethylbenzene	9.23	91	21623	2.068	ug/L	100
53) m,p-Xylene	9.36	106	8024	2.041	ug/L	99
54) o-xylene	9.76	106	7580	1.967	ug/L	98
55) Styrene	9.78	104	11443	1.749	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.44	83	10611	2.596	ug/L	96
59) Bromoform	9.94	173	4209	2.426	ug/L #	98
60) 1,2,3-Trichloropropane	10.48	75	7432	2.630	ug/L	93
61) Isopropylbenzene	10.15	105	18719	2.107	ug/L	98
62) 1,3,5-Trimethylbenzene	10.76	105	14143	1.965	ug/L	100
63) 1,2,4-Trimethylbenzene	11.13	105	13327	1.867	ug/L	98
64) 1,3-Dichlorobenzene	11.40	146	10365	2.289	ug/L	97
65) 1,4-Dichlorobenzene	11.49	146	11298	2.415	ug/L	95
67) 1,2-Dichlorobenzene	11.86	146	11593	2.555	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.64	75	1660	2.113	ug/L	99
69) 1,3,5-Trichlorobenzene	12.88	180	7116	2.069	ug/L	95
70) 1,2,4-trichlorobenzene	13.49	180	4248	1.480	ug/L	98
71) Naphthalene	13.74	128	10844	1.307	ug/L #	86
72) 1,2,3-Trichlorobenzene	13.98	180	5110	1.700	ug/L	97

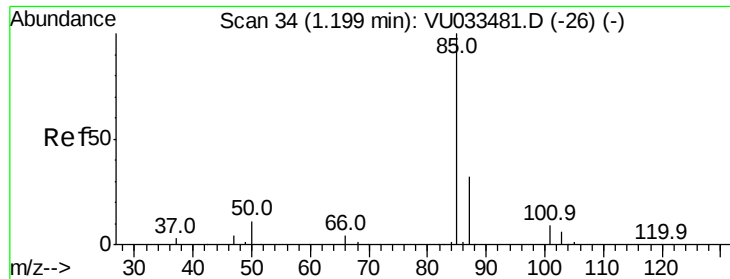
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.243 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

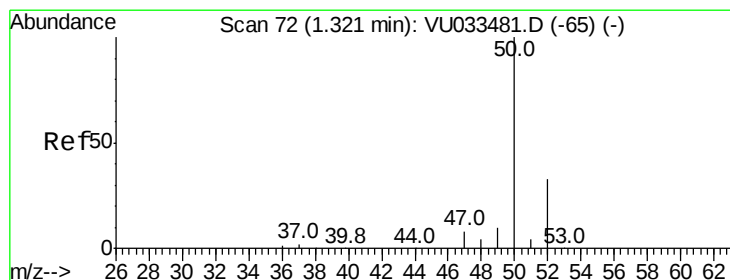
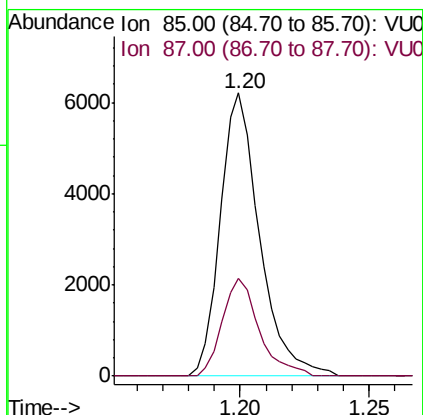
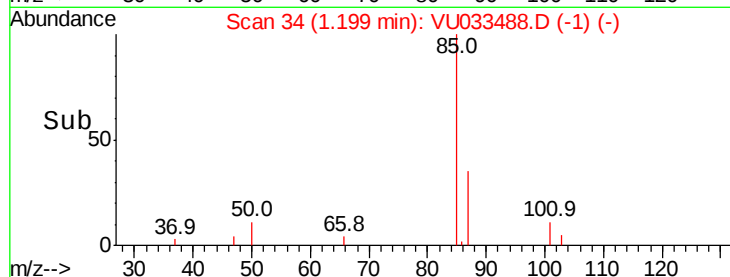
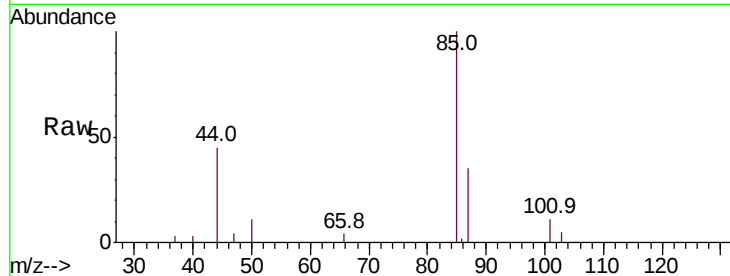
Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion: 85 Resp: 6578

Ion Ratio Lower Upper

85 100

87 32.4 25.7 38.5



#3

Chloromethane

Concen: 2.308 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033488.D

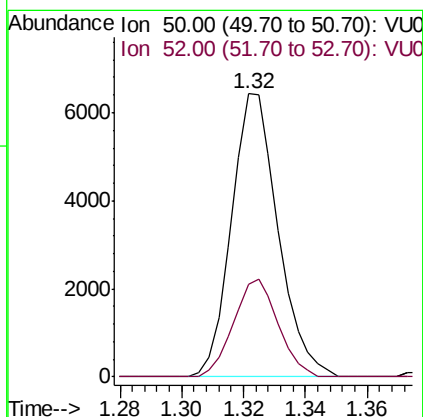
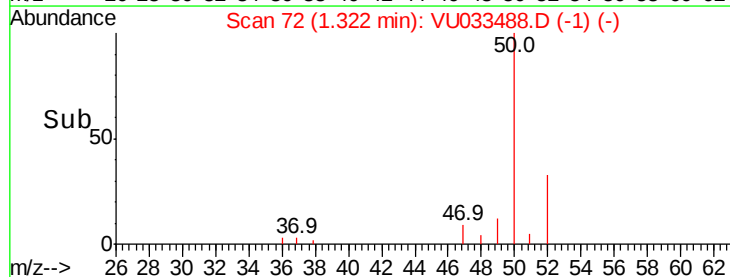
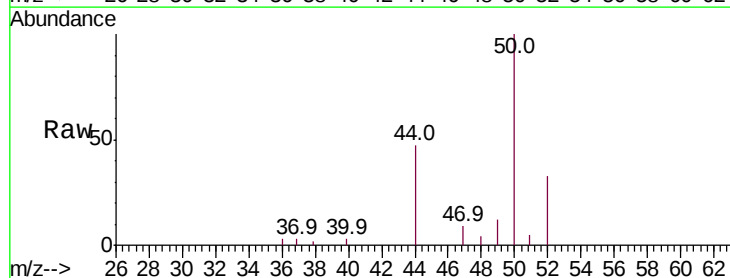
Acq: 30 Jul 2019 12:35

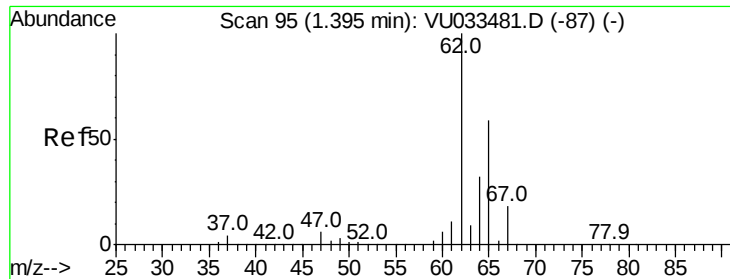
Tgt Ion: 50 Resp: 6758

Ion Ratio Lower Upper

50 100

52 32.5 23.3 43.3





#5

Vinyl chloride

Concen: 2.394 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampled :

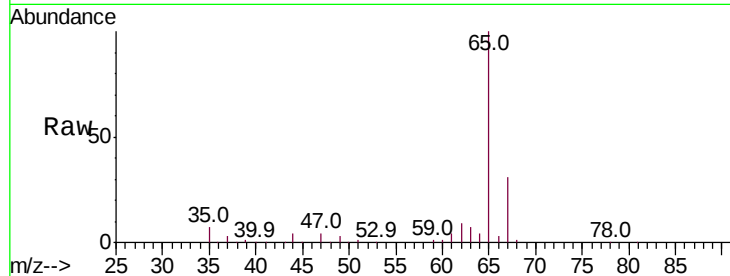
MDL04

Tot Ion: 62 Resp: 8016

Ion Ratio Lower Upper

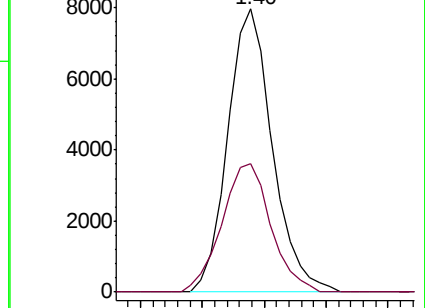
62 100

64 45.6 23.0 42.6#

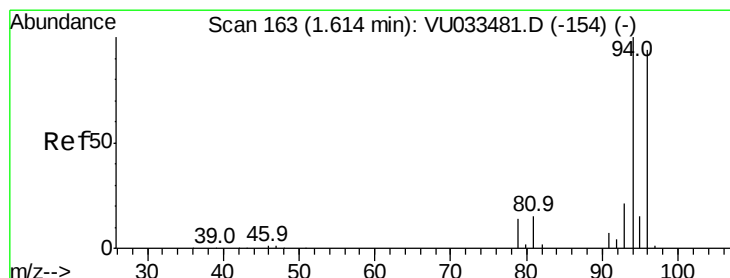
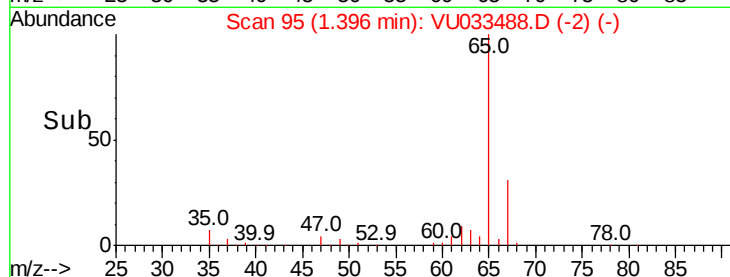


Abundance Ion 62.00 (61.70 to 62.70): VU033488.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033488.D (-87) (-)



Time-->



#6

Bromomethane

Concen: 2.040 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033488.D

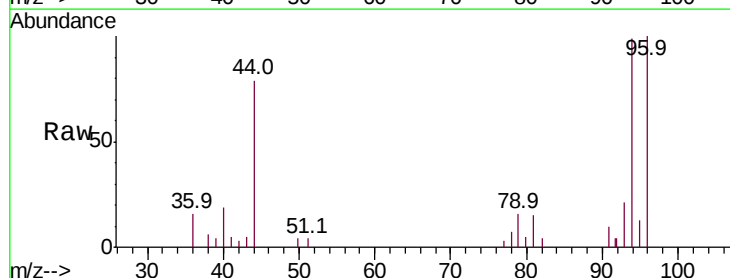
Acq: 30 Jul 2019 12:35

Tgt Ion: 94 Resp: 4774

Ion Ratio Lower Upper

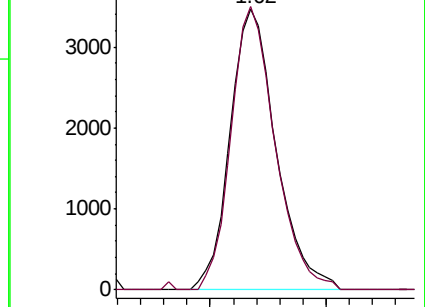
94 100

96 100.6 66.2 123.0

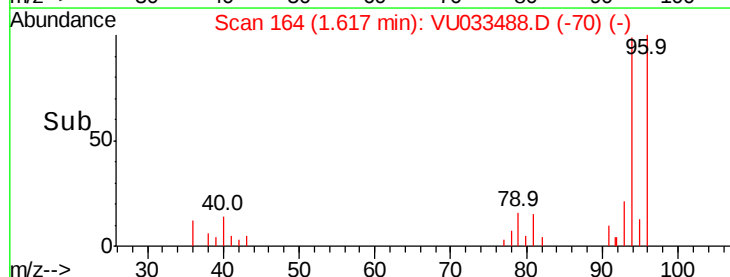


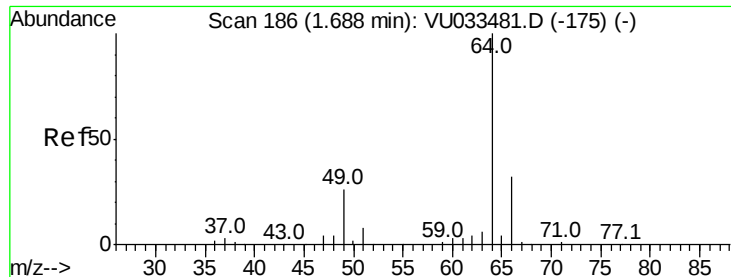
Abundance Ion 94.00 (93.70 to 94.70): VU033488.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033488.D (-154) (-)



Time-->





#8

Chloroethane

Concen: 2.401 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

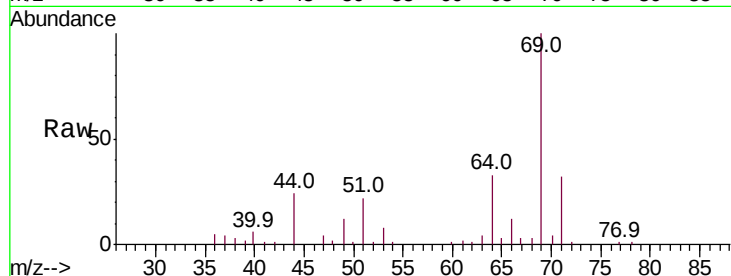
MDL04

Tot Ion: 64 Resp: 4932

Ion Ratio Lower Upper

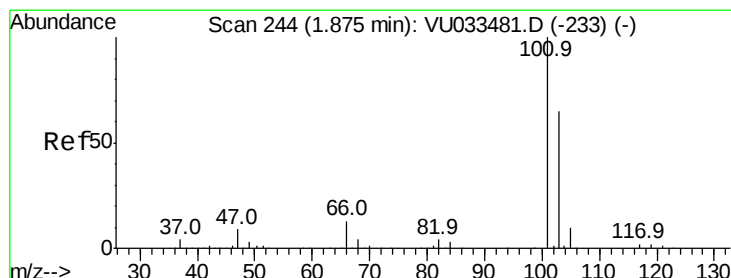
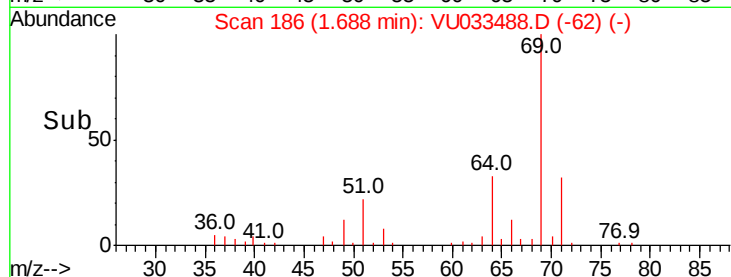
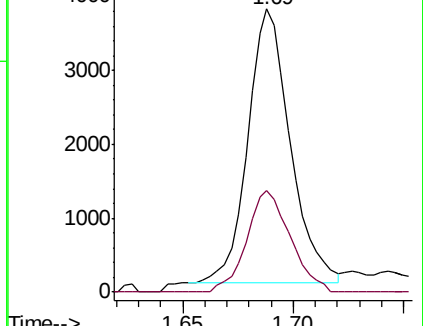
64 100

66 35.8 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU033488.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033488.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 2.379 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033488.D

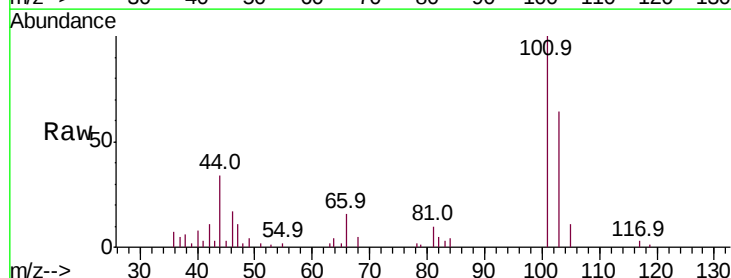
Acq: 30 Jul 2019 12:35

Tgt Ion:101 Resp: 10449

Ion Ratio Lower Upper

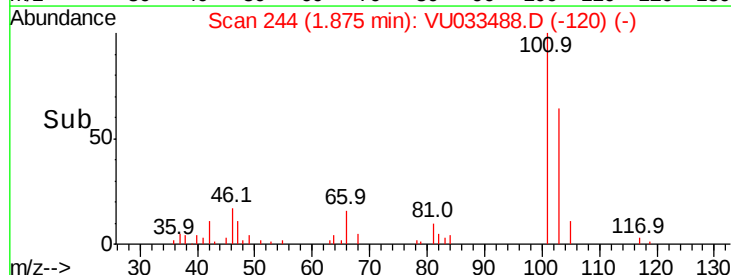
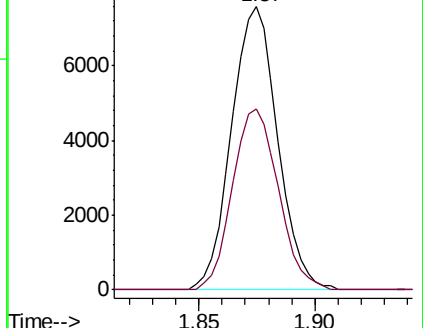
101 100

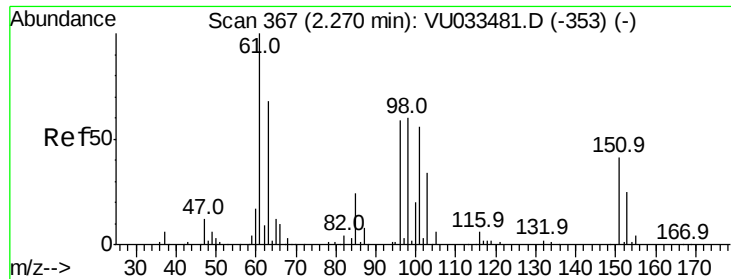
103 63.7 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU033488.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033488.D (-233) (-)





#10

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

Concen: 2.857 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

MDL04

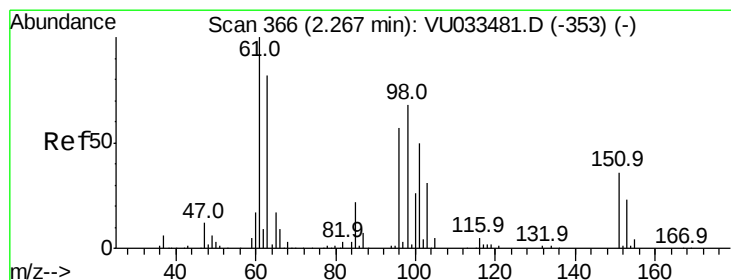
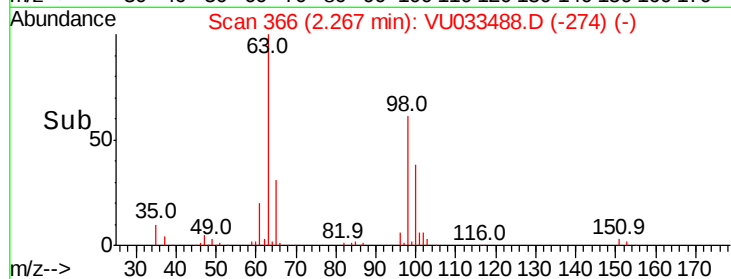
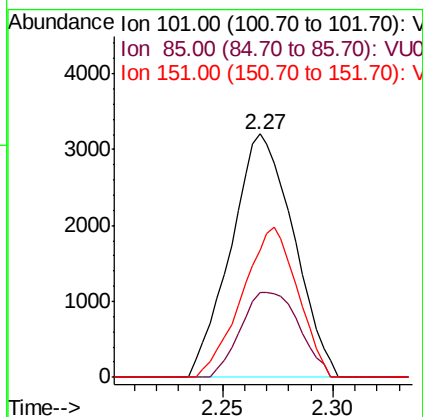
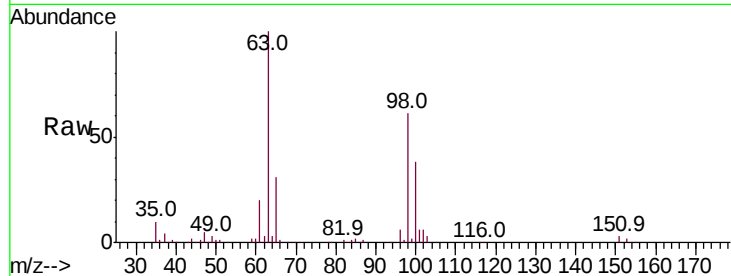
Tot Ion:101 Resp: 6305

Ion Ratio Lower Upper

101 100

85 32.6 35.8 53.8#

151 54.5 58.6 87.8#



#12

1,1-Dichloroethene

Concen: 2.736 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

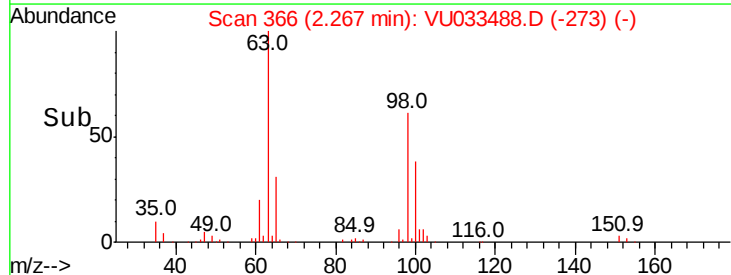
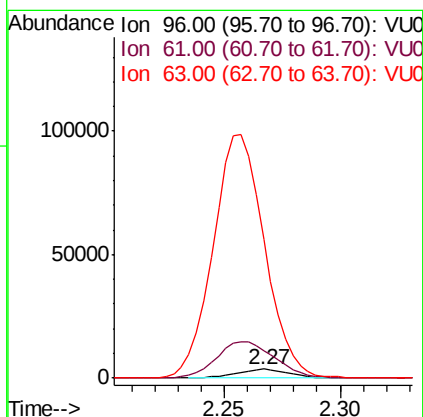
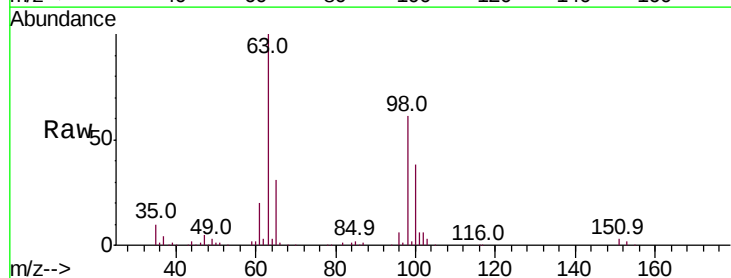
Tgt Ion: 96 Resp: 5882

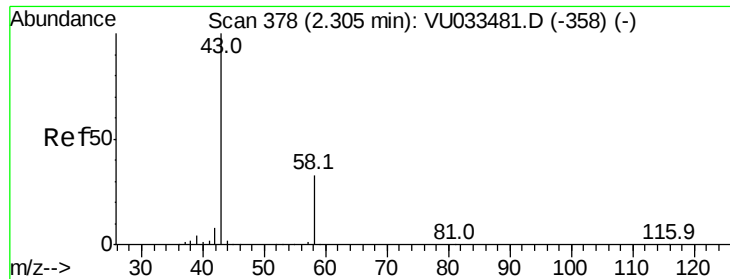
Ion Ratio Lower Upper

96 100

61 308.0 124.1 230.5#

63 1538.5 101.8 189.2#





#13

Acetone

Concen: 4.782 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU033488.D

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ClientSampleId :

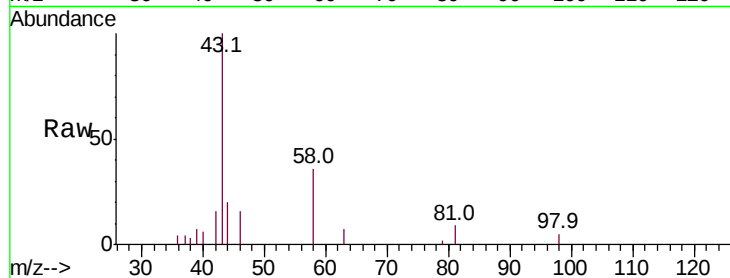
MDL04

Tot Ion: 43 Resp: 7247

Ion Ratio Lower Upper

43 100

58 36.0 0.0 67.4



Abundance Ion 43.00 (42.70 to 43.70): VU033488.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU033488.D (-358) (-)

5000

4000

3000

2000

1000

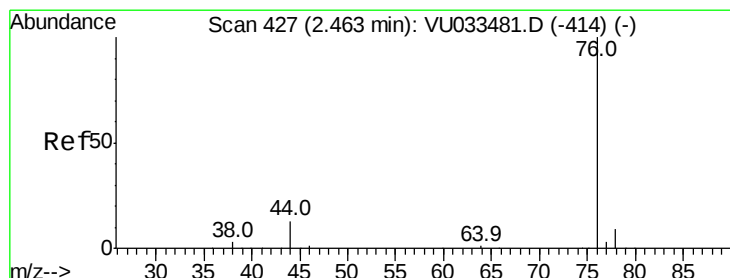
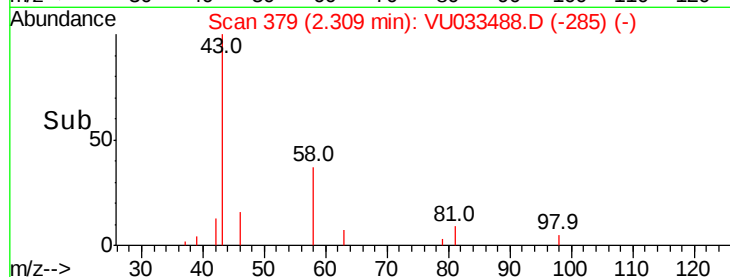
0

Time-->

2.25

2.30

2.35



#14

Carbon disulfide

Concen: 2.292 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033488.D

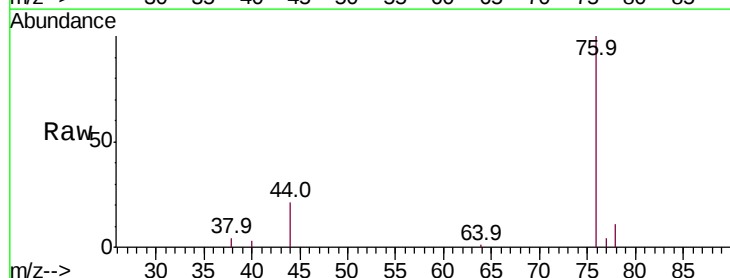
Acq: 30 Jul 2019 12:35

Tgt Ion: 76 Resp: 14681

Ion Ratio Lower Upper

76 100

78 10.5 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU033488.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU033488.D (-334) (-)

10000

8000

6000

4000

2000

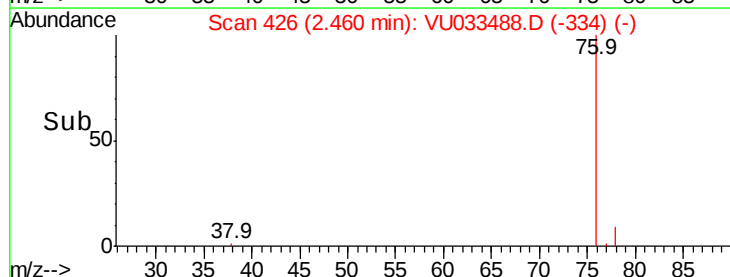
0

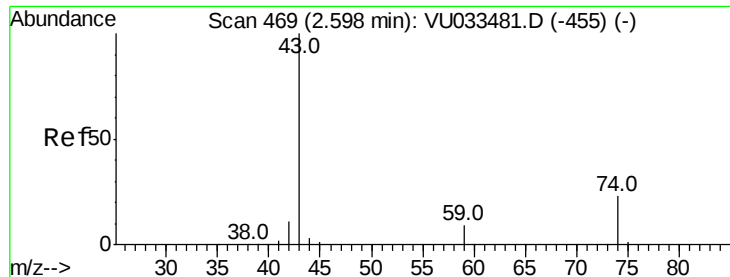
Time-->

2.40

2.45

2.50





#15

Methyl Acetate

Concen: 2.050 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.01 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampled :

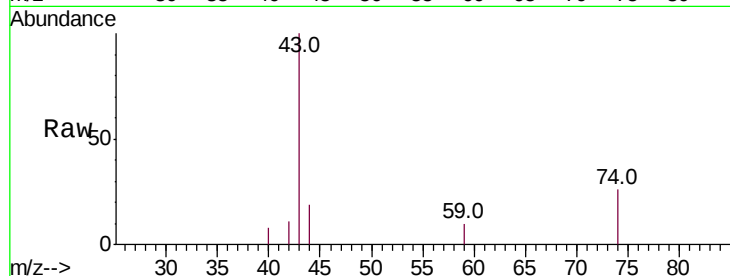
MDL04

Tot Ion: 43 Resp: 4983

Ion Ratio Lower Upper

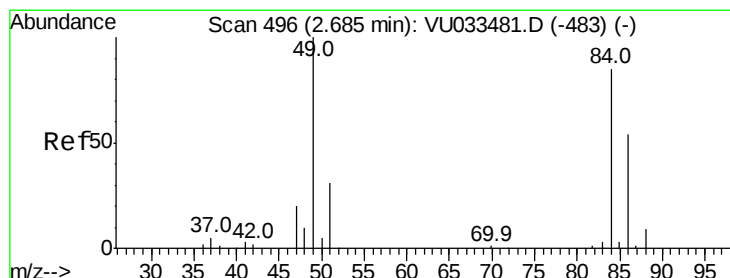
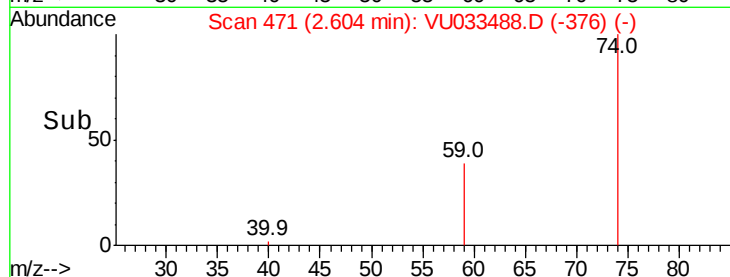
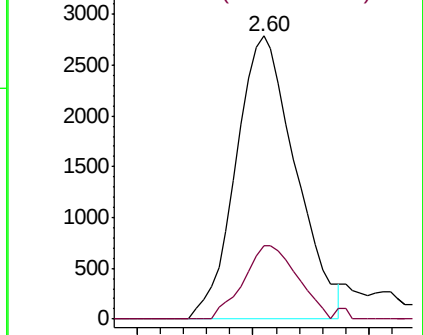
43 100

74 23.5 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 2.454 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

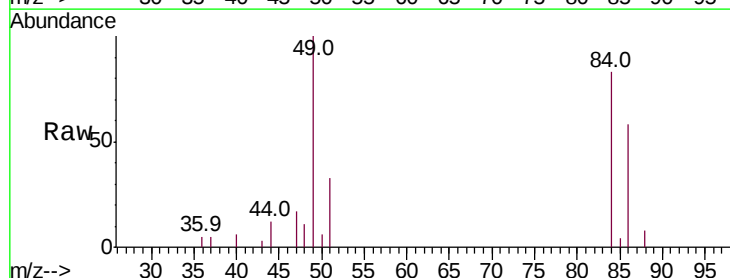
Tgt Ion: 84 Resp: 5797

Ion Ratio Lower Upper

84 100

86 70.8 44.2 82.0

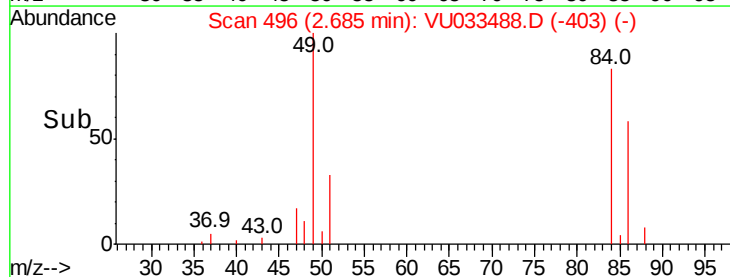
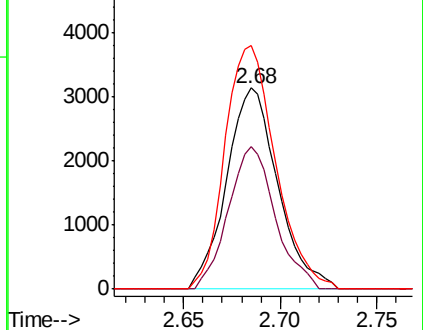
49 121.0 82.3 152.8

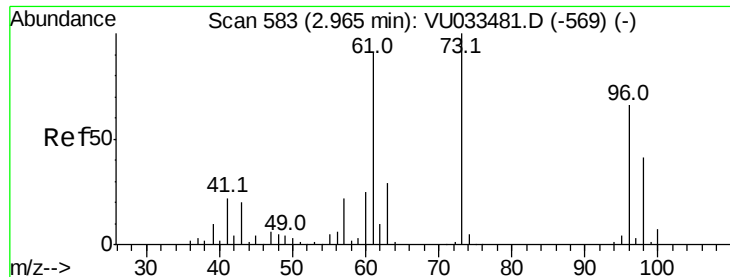


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 2.117 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

MDL04

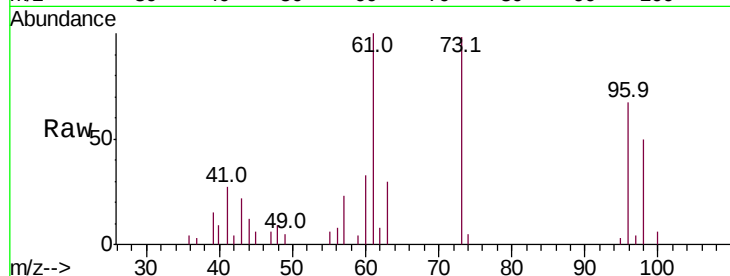
Tot Ion: 96 Resp: 4522

Ion Ratio Lower Upper

96 100

61 149.4 100.3 186.3

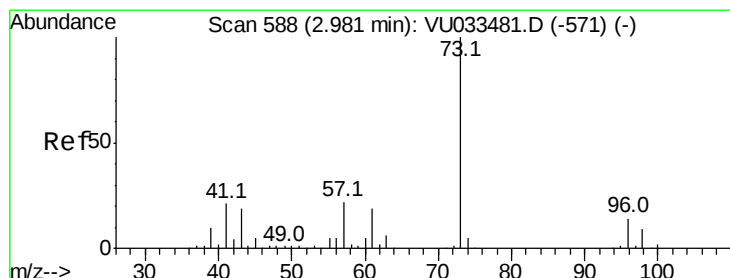
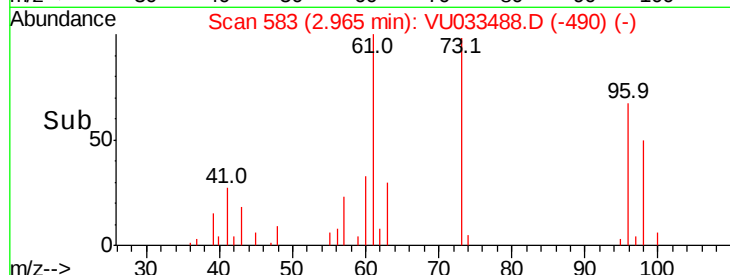
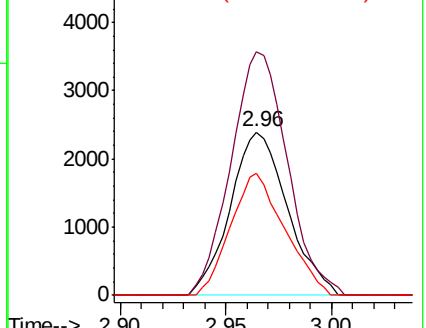
98 75.0 45.1 83.9



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 2.194 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

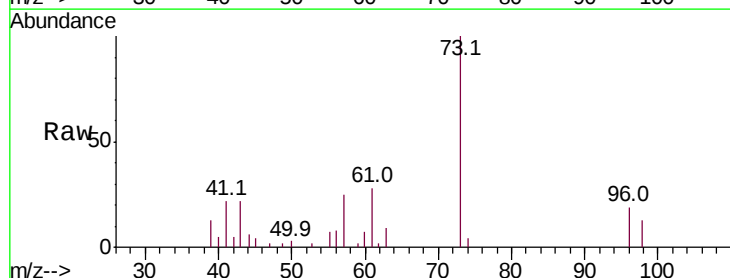
Tgt Ion: 73 Resp: 13825

Ion Ratio Lower Upper

73 100

43 21.1 15.3 22.9

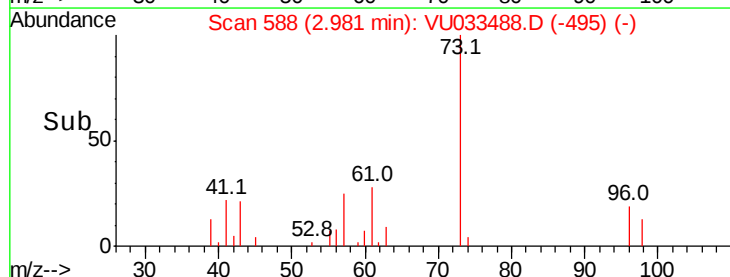
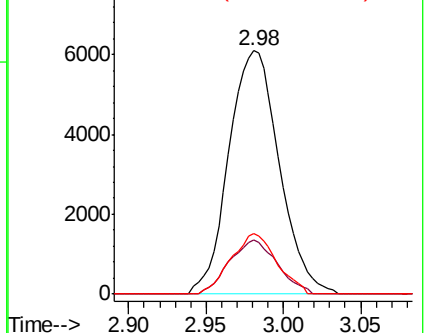
57 22.6 17.7 26.5

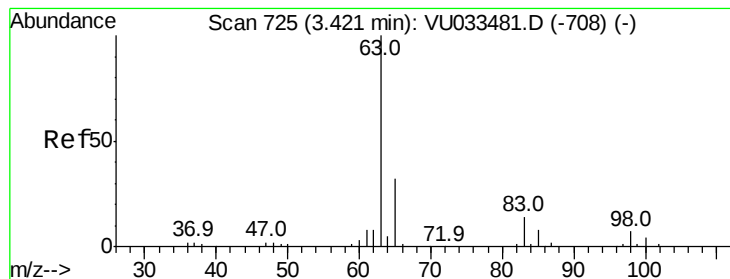


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 2.220 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampled :

MDL04

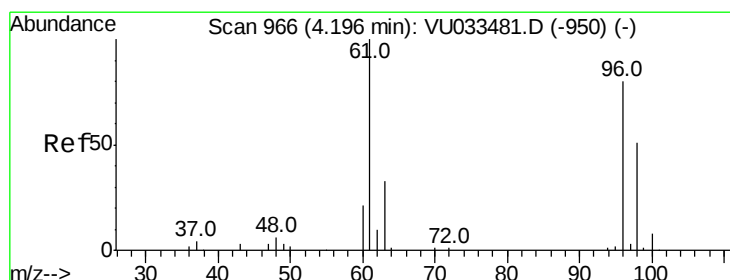
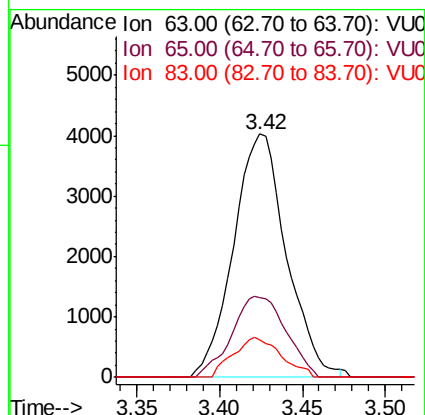
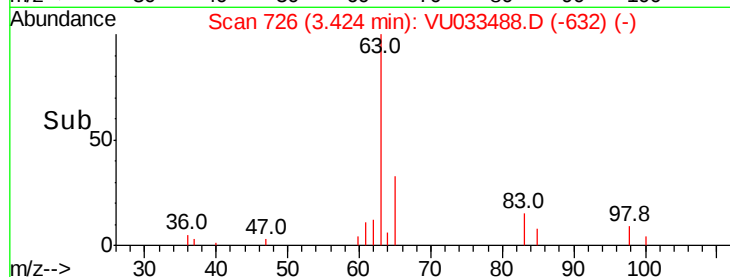
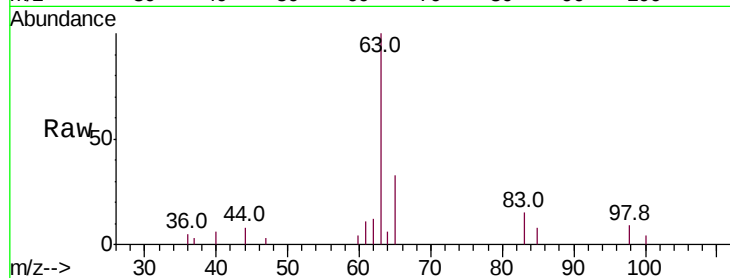
Tot Ion: 63 Resp: 8927

Ion Ratio Lower Upper

63 100

65 33.0 22.7 42.1

83 15.3 9.4 17.6



#20

cis-1,2-Dichloroethene

Concen: 2.266 ug/L

RT: 4.20 min Scan# 966

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

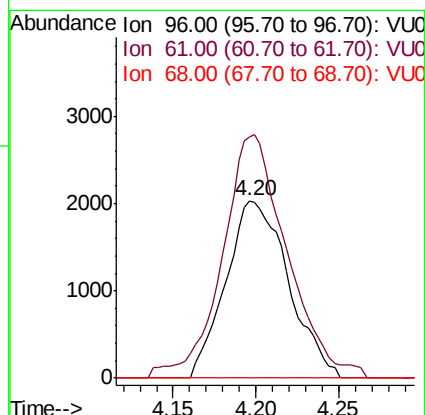
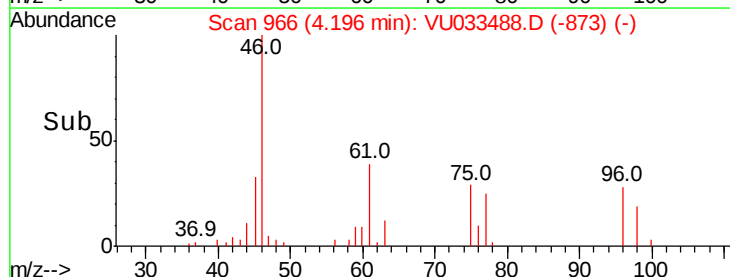
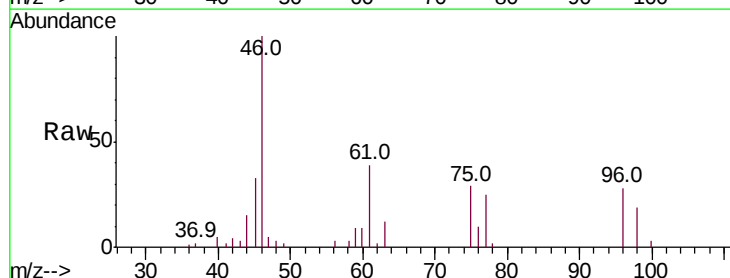
Tgt Ion: 96 Resp: 5341

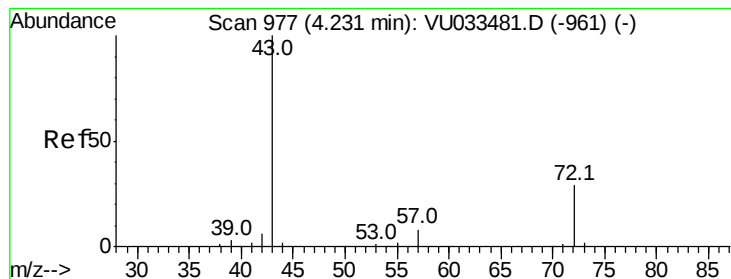
Ion Ratio Lower Upper

96 100

61 135.9 88.9 165.1

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 3.947 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.03 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampled :

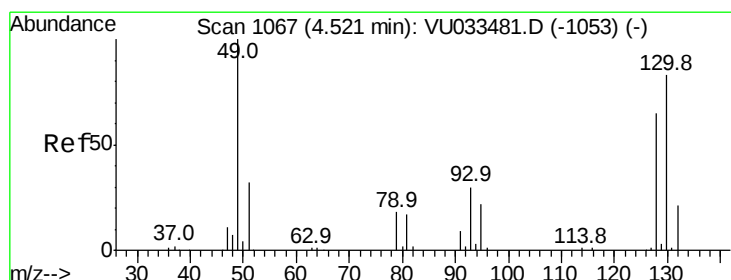
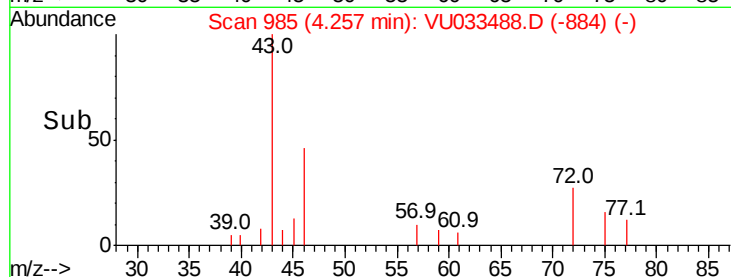
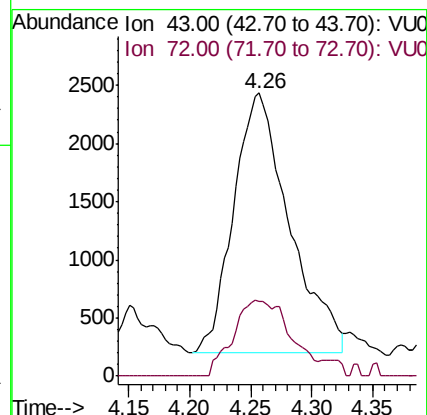
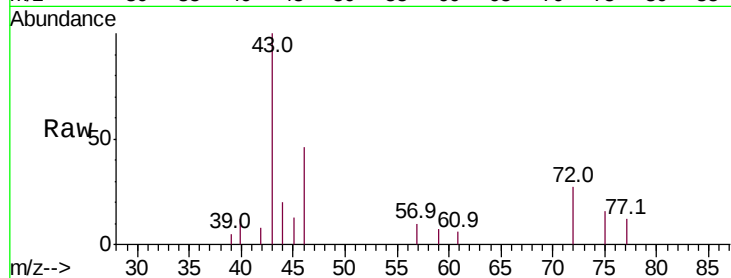
MDL04

Tot Ion: 43 Resp: 7108

Ion Ratio Lower Upper

43 100

72 19.4 14.1 42.3



#23

Bromochloromethane

Concen: 2.293 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Tgt Ion: 128 Resp: 2871

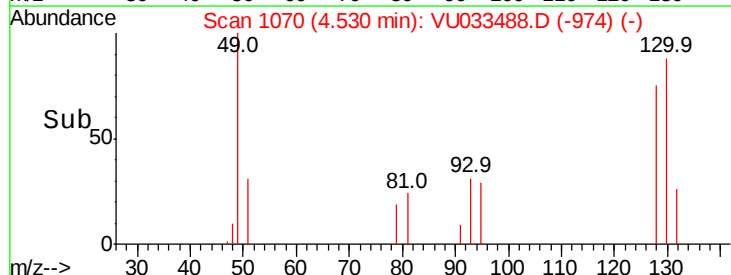
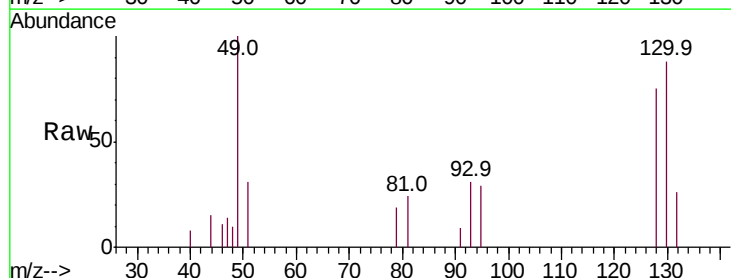
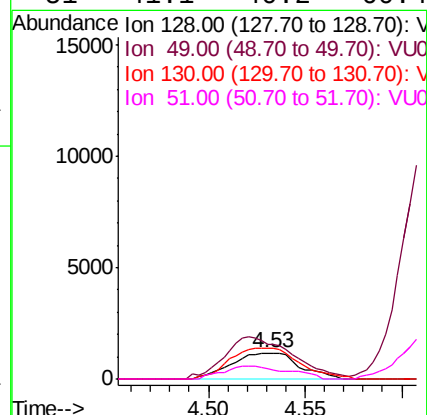
Ion Ratio Lower Upper

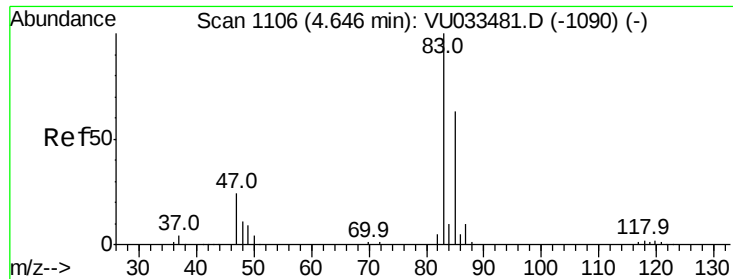
128 100

49 133.8 108.0 200.6

130 117.1 92.9 172.5

51 41.1 40.2 60.4

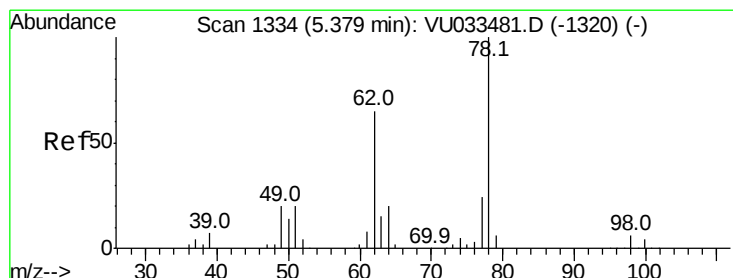
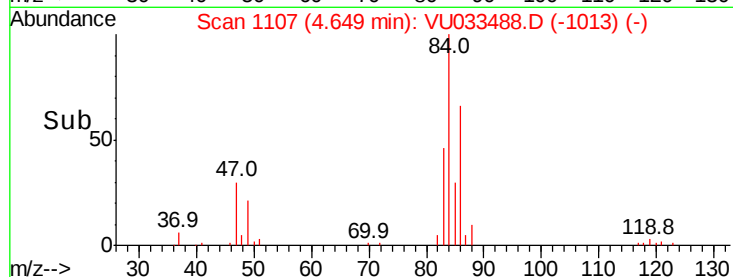
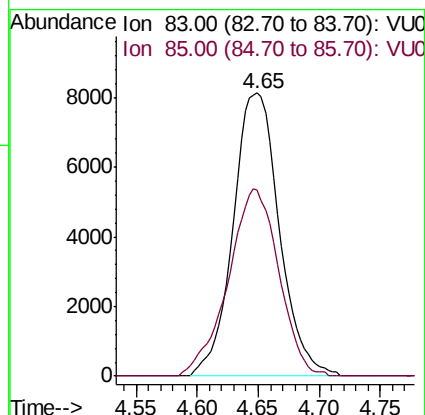
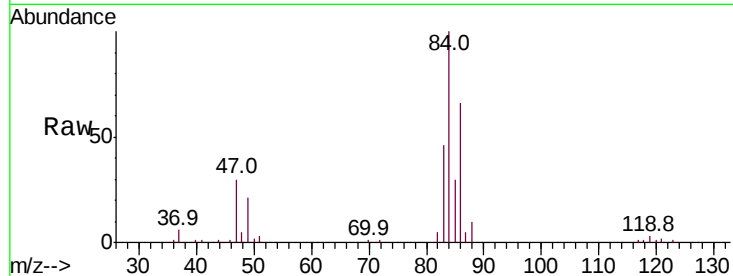




#25
Chloroform
Concen: 5.009 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

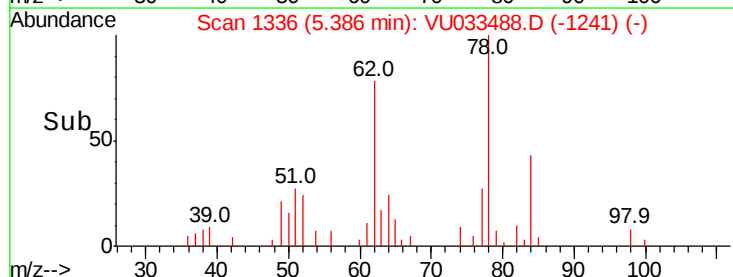
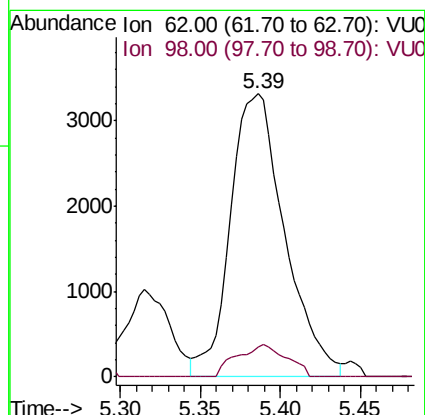
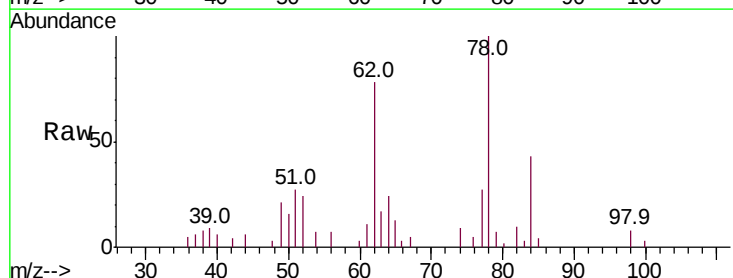
Instrument :
MSVOA_U
ClientSampleId :
MDL04

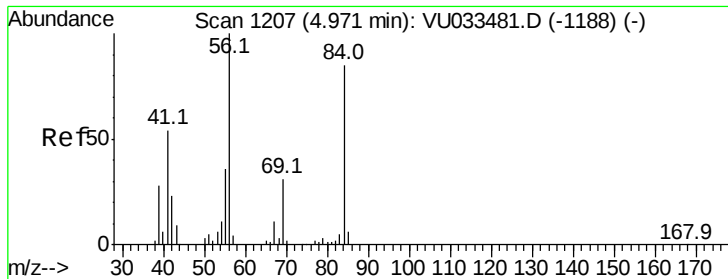
Tot Ion: 83 Resp: 21356
Ion Ratio Lower Upper
83 100
85 65.8 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.337 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

Tgt Ion: 62 Resp: 7737
Ion Ratio Lower Upper
62 100
98 10.6 6.7 10.1#

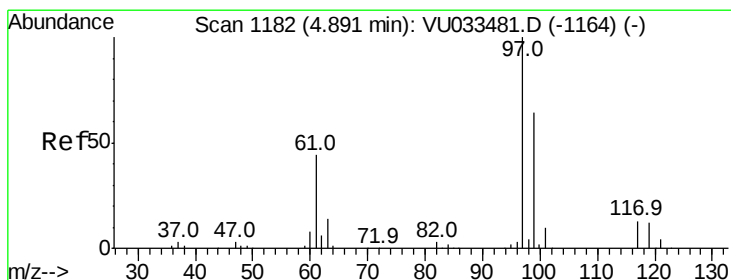
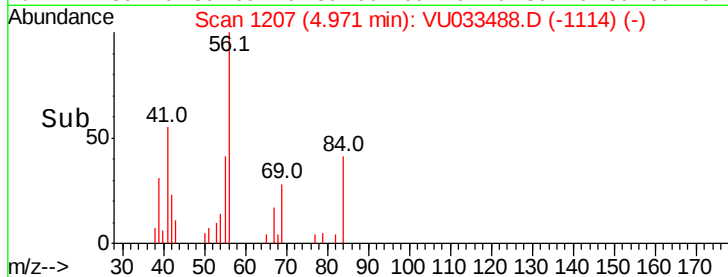
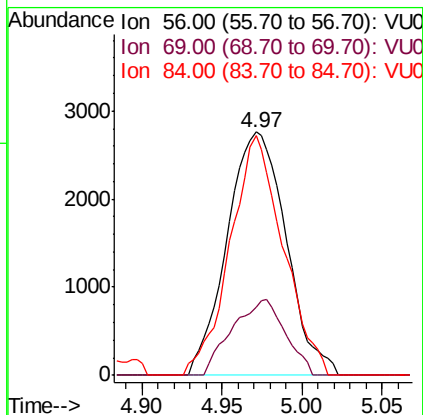
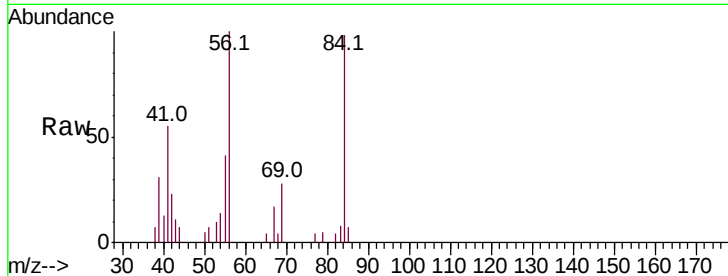




#29
Cyclohexane
Concen: 2.119 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

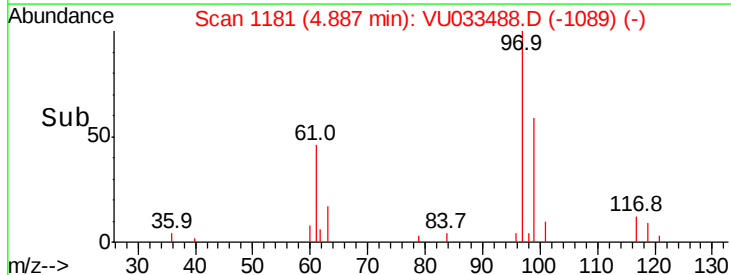
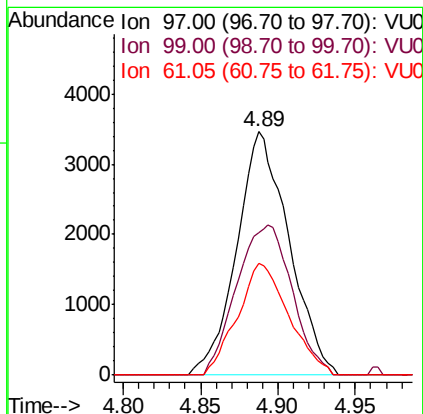
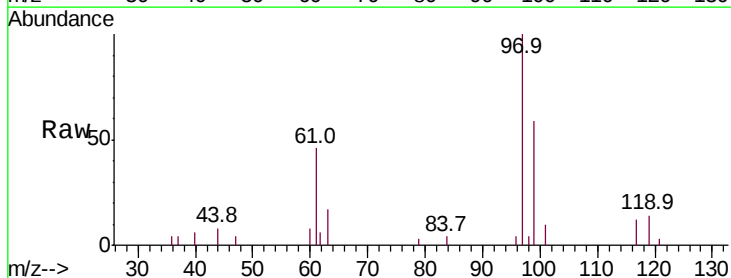
Instrument :
MSVOA_U
ClientSampleId :
MDL04

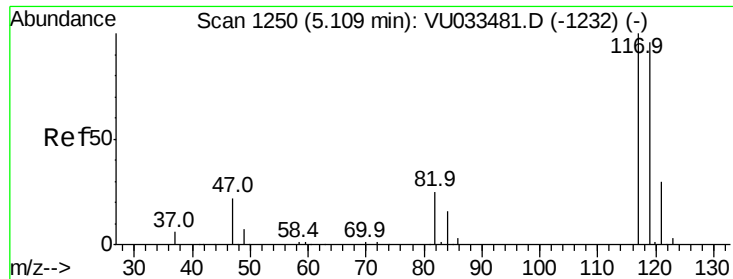
Tot Ion: 56 Resp: 6980
Ion Ratio Lower Upper
56 100
69 27.9 25.3 37.9
84 88.4 69.6 104.4



#30
1,1,1-Trichloroethane
Concen: 2.276 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

Tgt Ion: 97 Resp: 8126
Ion Ratio Lower Upper
97 100
99 65.4 51.8 77.6
61 45.1 36.2 54.2





#31

Carbon tetrachloride

Concen: 2.204 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampled :

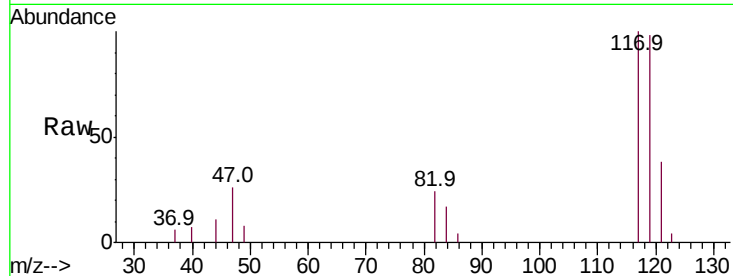
MDL04

Tot Ion:117 Resp: 7004

Ion Ratio Lower Upper

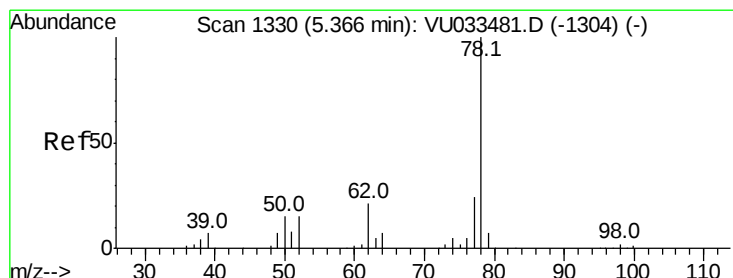
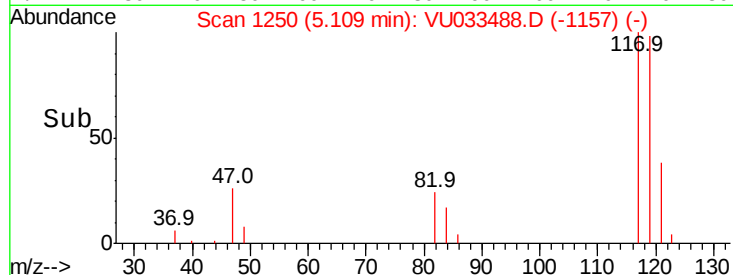
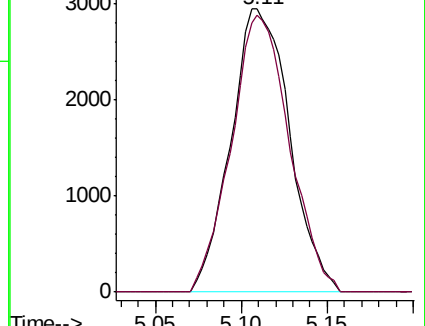
117 100

119 96.9 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.298 ug/L

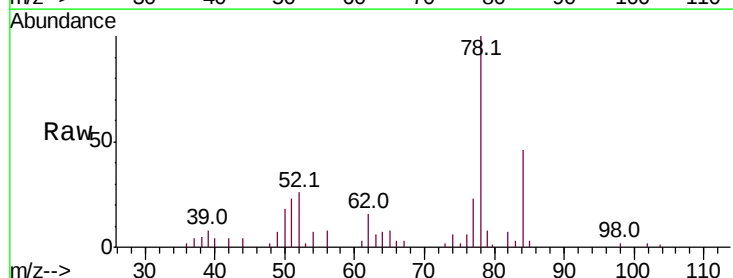
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

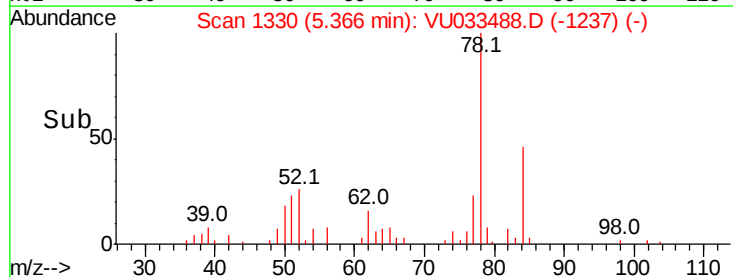
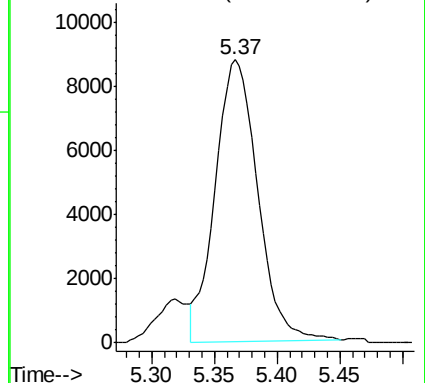
Lab File: VU033488.D

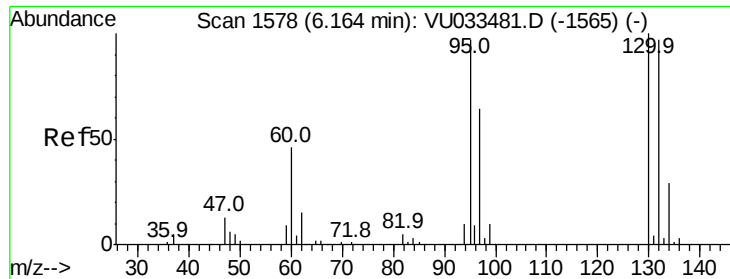
Acq: 30 Jul 2019 12:35

Tgt Ion: 78 Resp: 20598



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.285 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 95 Resp: 5335

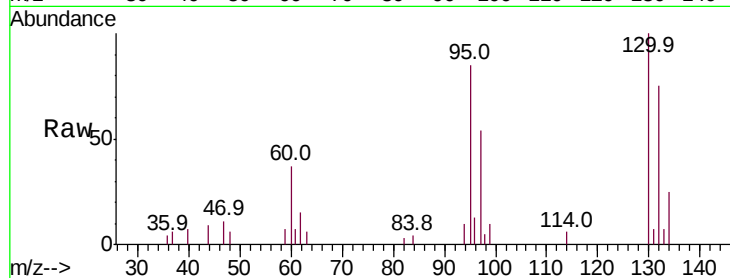
Ion Ratio Lower Upper

95 100

97 63.5 45.4 84.2

132 88.2 67.1 124.5

130 117.4 71.4 132.6

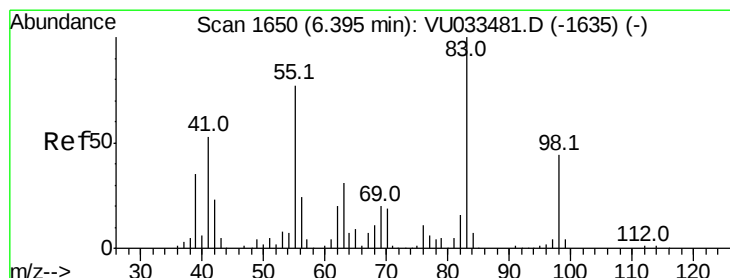
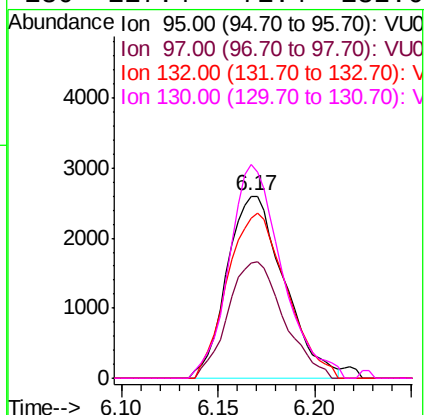
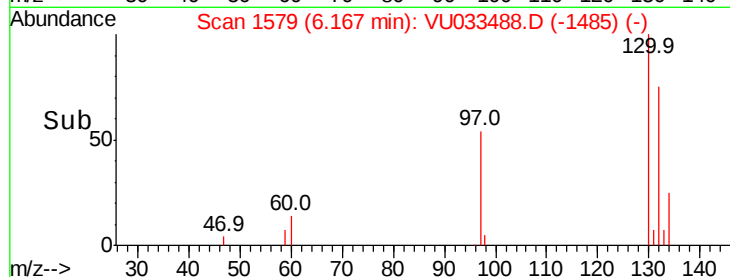


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 2.074 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

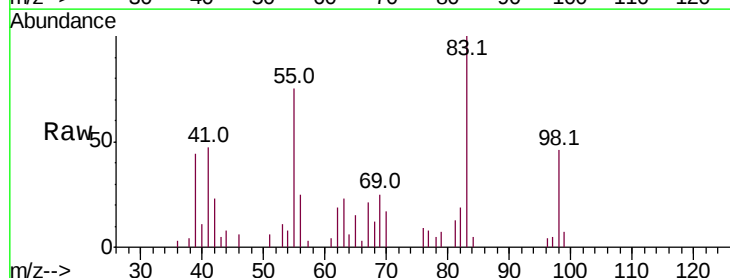
Tgt Ion: 83 Resp: 7364

Ion Ratio Lower Upper

83 100

55 78.9 62.4 93.6

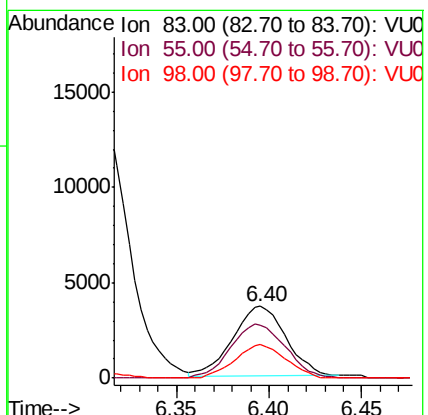
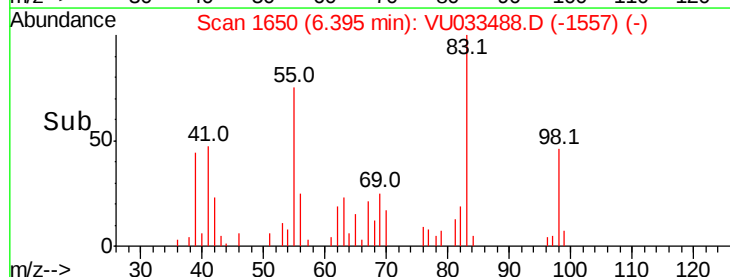
98 45.5 37.3 55.9

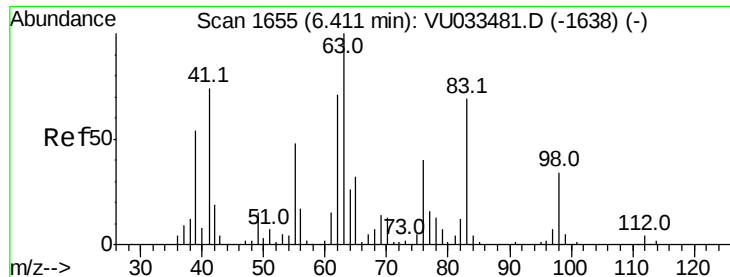


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

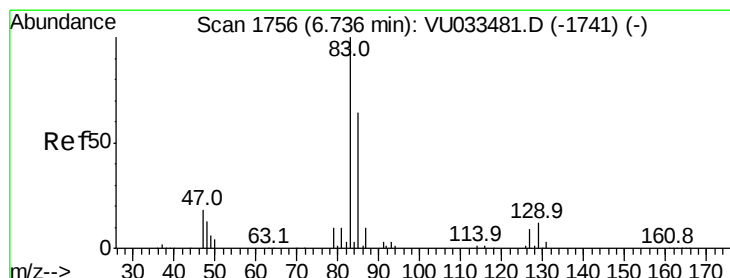
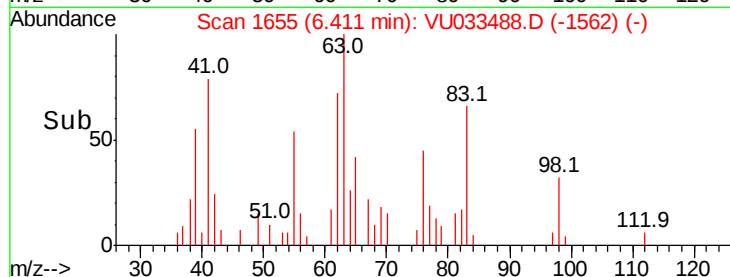
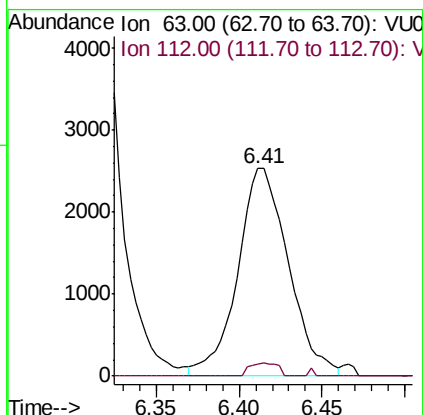
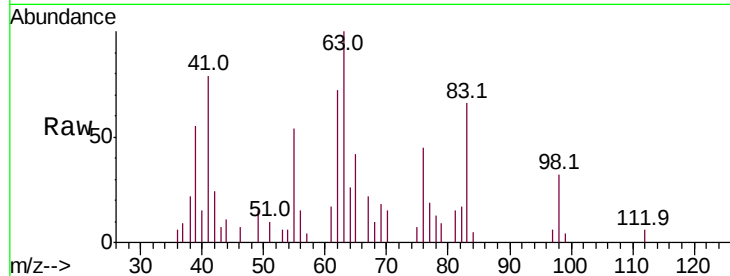




#37
 1,2-Dichloropropane
 Concen: 2.248 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

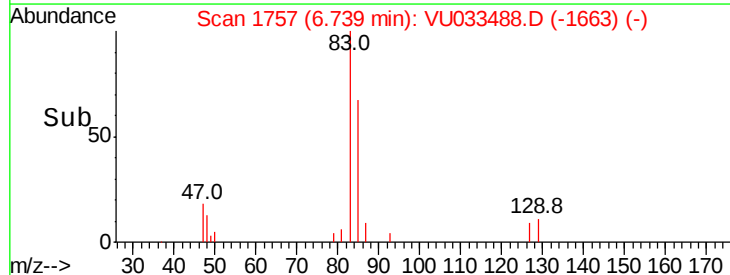
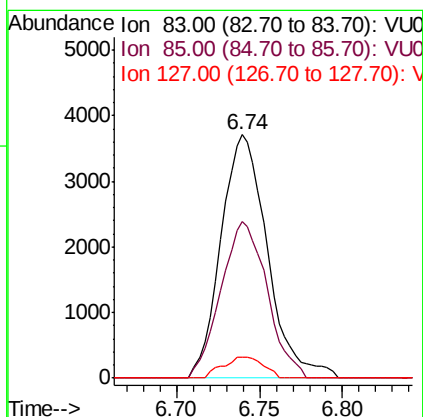
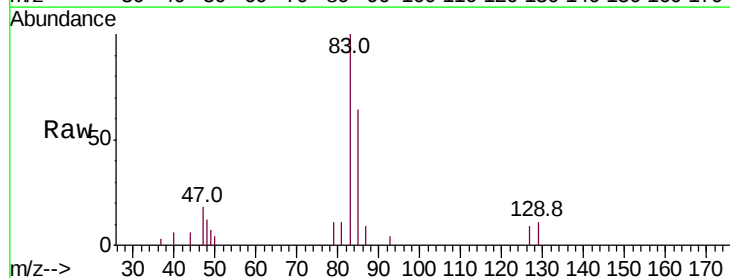
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

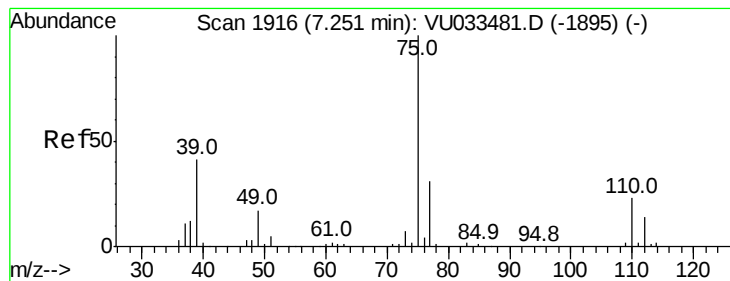
Tot Ion: 63 Resp: 5419
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.1 4.7



#38
 Bromodichloromethane
 Concen: 2.270 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

Tgt Ion: 83 Resp: 7201
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.4 84.4
 127 8.6 7.3 10.9



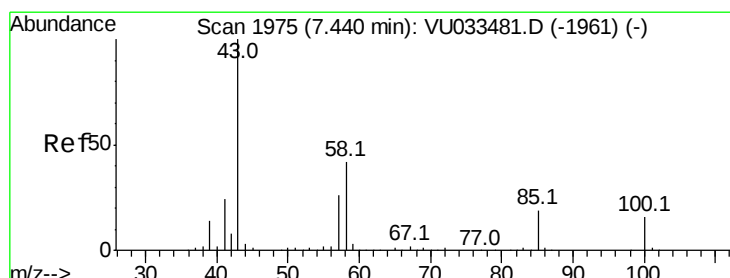
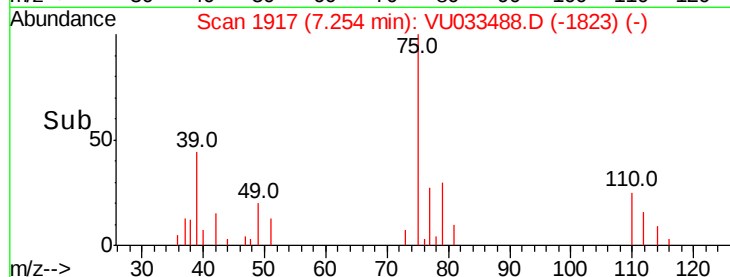
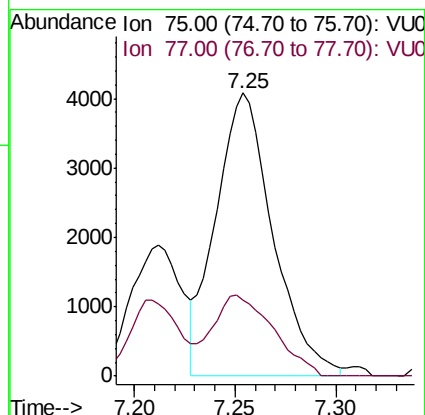
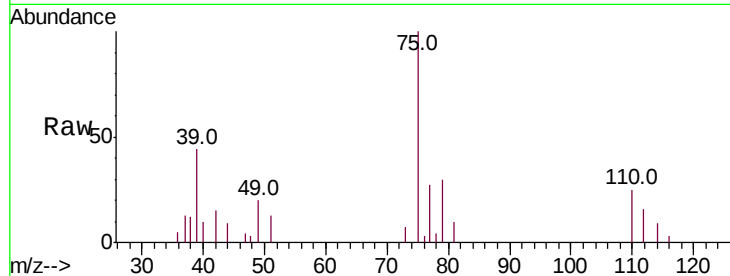


#39

cis-1,3-Dichloropropene
Concen: 2.243 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

Instrument :
MSVOA_U
ClientSampleId :
MDL04

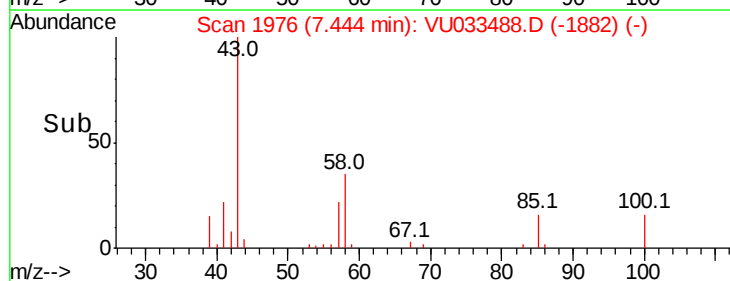
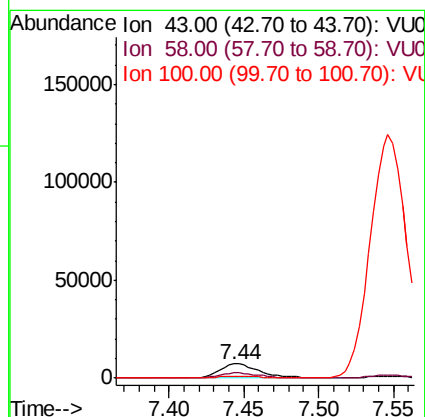
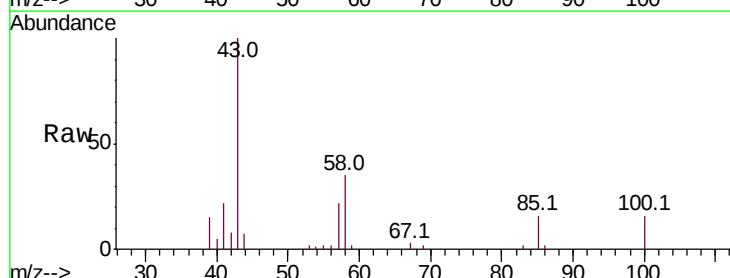
Tot Ion: 75 Resp: 8063
Ion Ratio Lower Upper
75 100
77 27.1 21.6 40.2

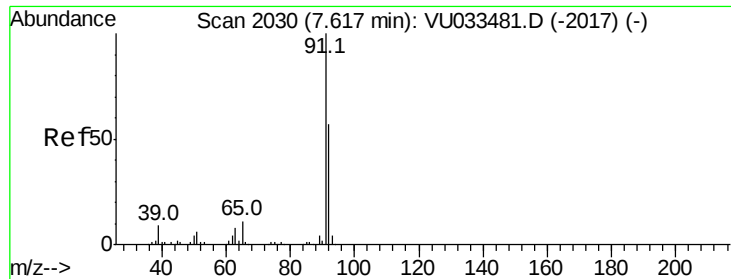


#40

4-Methyl-2-pentanone
Concen: 4.385 ug/L
RT: 7.44 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

Tgt Ion: 43 Resp: 13929
Ion Ratio Lower Upper
43 100
58 35.5 33.4 50.2
100 14.0 12.3 18.5





#42

Toluene

Concen: 2.336 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

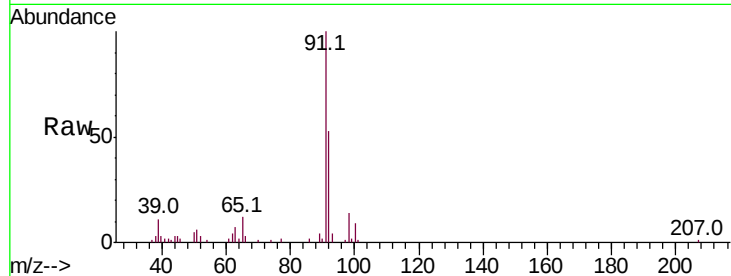
MDL04

Tot Ion: 91 Resp: 22530

Ion Ratio Lower Upper

91 100

92 52.7 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VU033488.D (-2017) (-)

Ion 92.00 (91.70 to 92.70): VU033488.D (-2017) (-)

7.62

15000

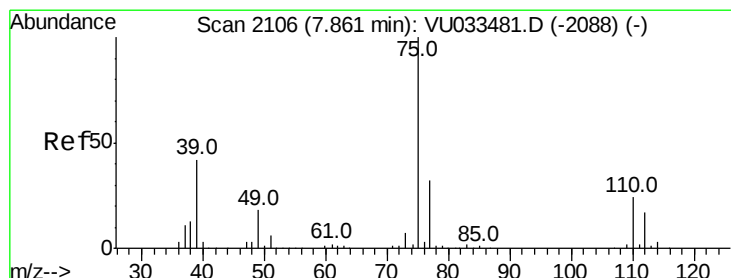
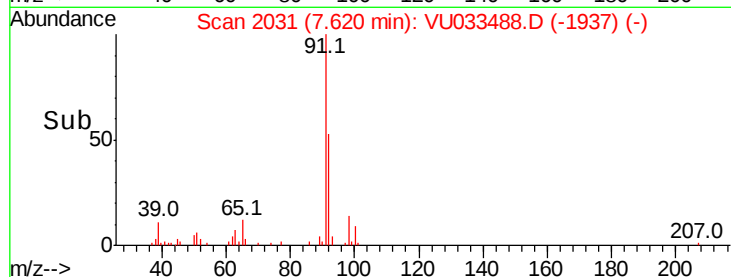
10000

5000

0

Time-->

7.55 7.60 7.65 7.70



#44

trans-1,3-Dichloropropene

Concen: 2.081 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033488.D

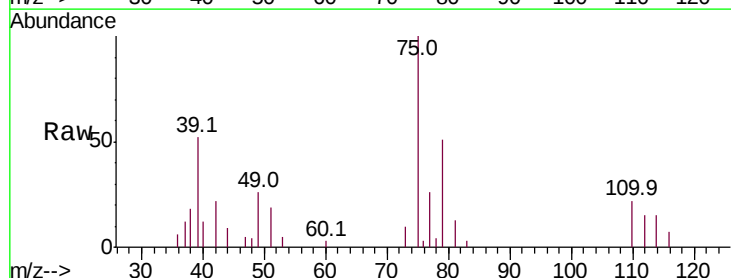
Acq: 30 Jul 2019 12:35

Tgt Ion: 75 Resp: 6790

Ion Ratio Lower Upper

75 100

77 26.3 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU033488.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033488.D (-2088) (-)

4000

3000

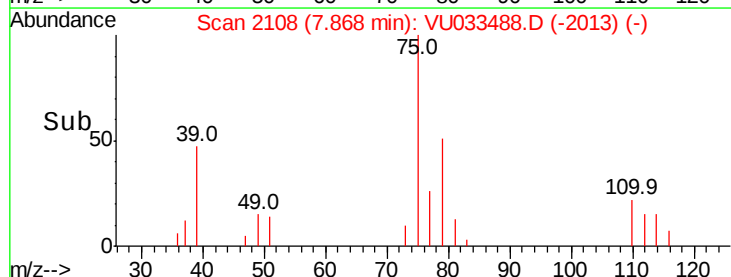
2000

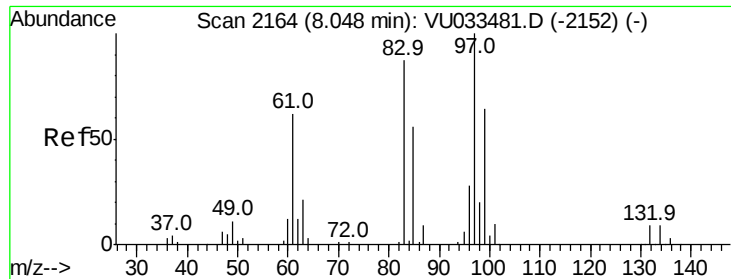
1000

0

Time-->

7.85 7.90

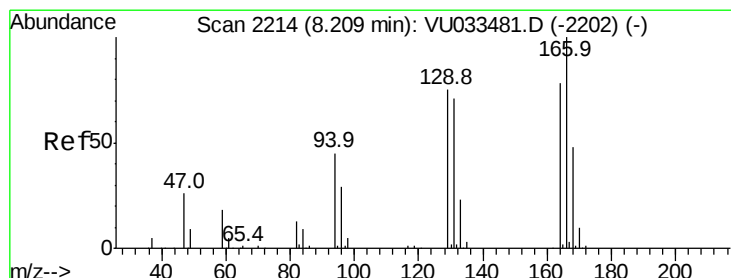
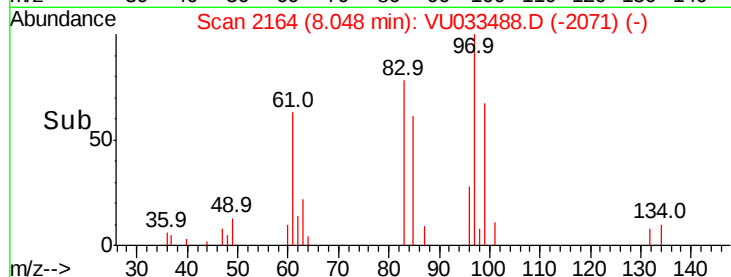
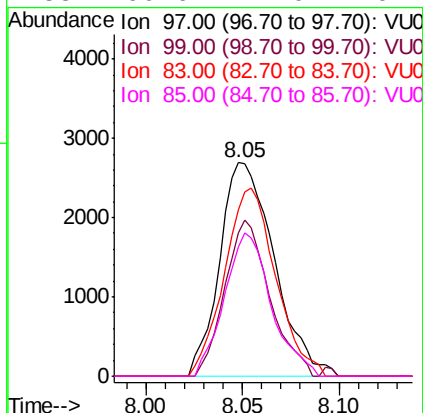
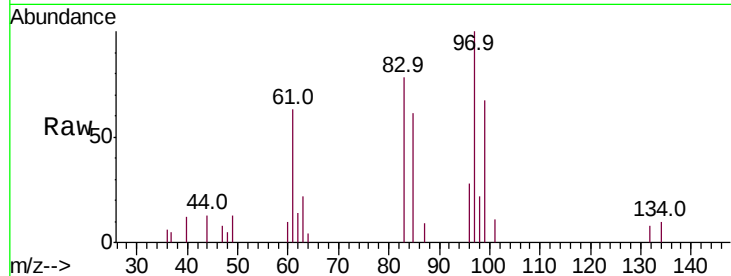




#45
1,1,2-Trichloroethane
Concen: 2.297 ug/L
RT: 8.05 min Scan# 2164
Delta R.T. 0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

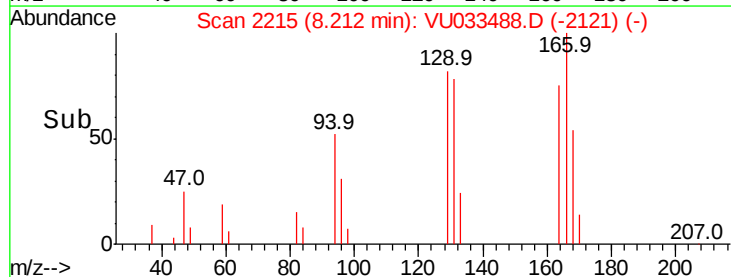
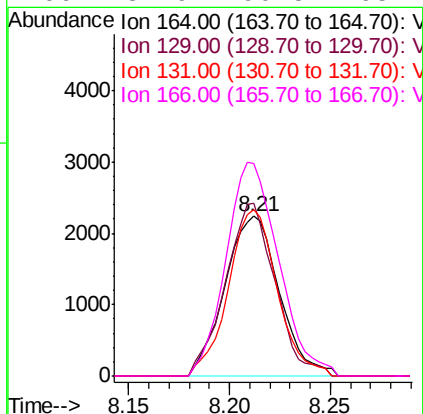
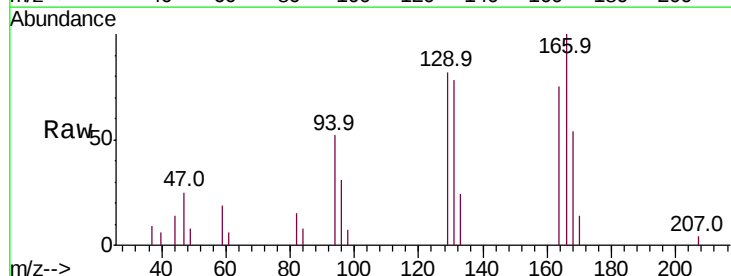
Instrument :
MSVOA_U
ClientSampleId :
MDL04

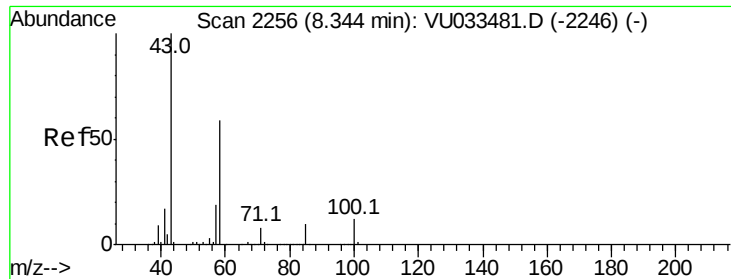
Tot Ion:	97	Resp:	5281
Ion	Ratio	Lower	Upper
97	100		
99	67.0	43.3	80.5
83	77.8	61.3	113.9
85	60.6	41.0	76.2



#46
Tetrachloroethene
Concen: 2.224 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

Tgt Ion:	164	Resp:	4225
Ion	Ratio	Lower	Upper
164	100		
129	108.6	66.6	123.8
131	104.3	63.9	118.7
166	132.9	90.5	168.1

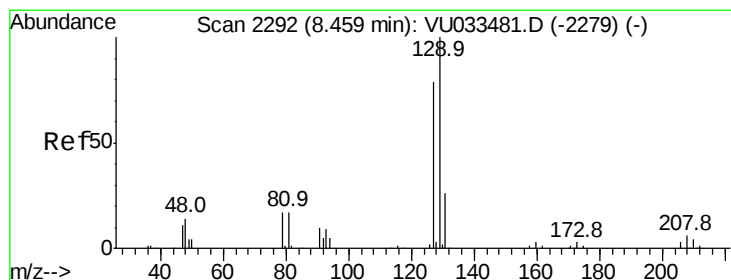
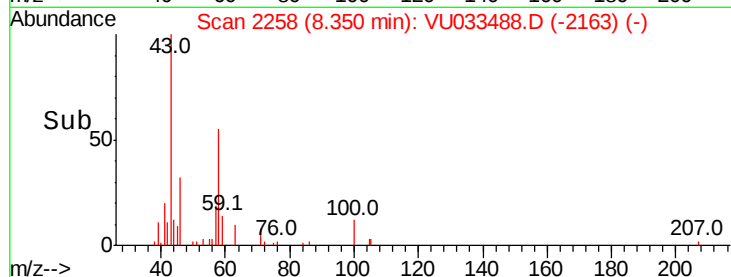
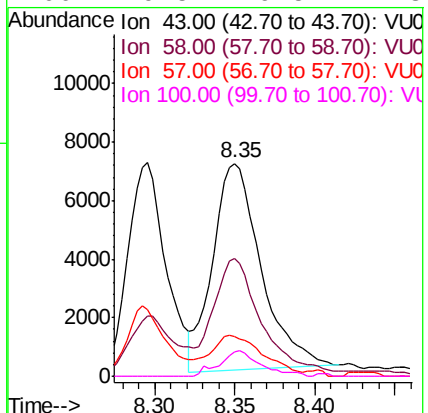
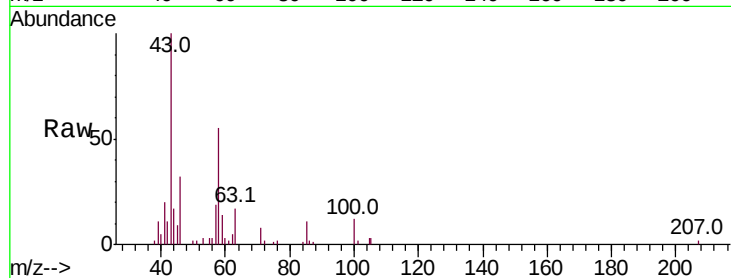




#48
2-Hexanone
Concen: 5.691 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

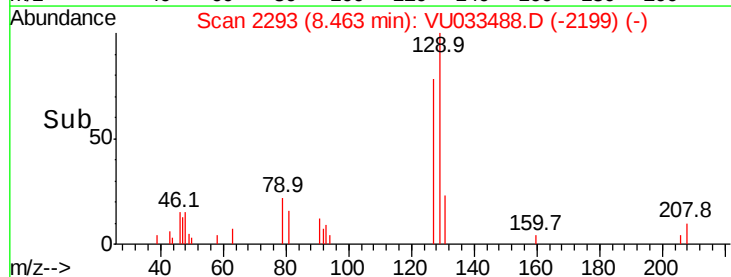
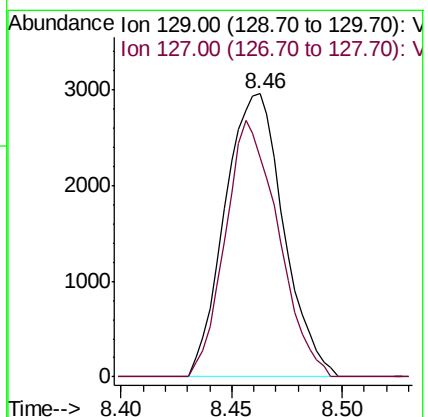
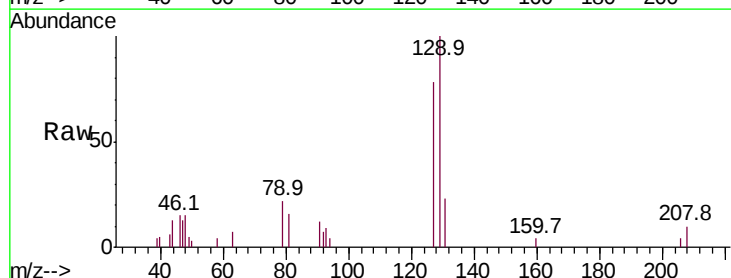
Instrument :
MSVOA_U
ClientSampleId :
MDL04

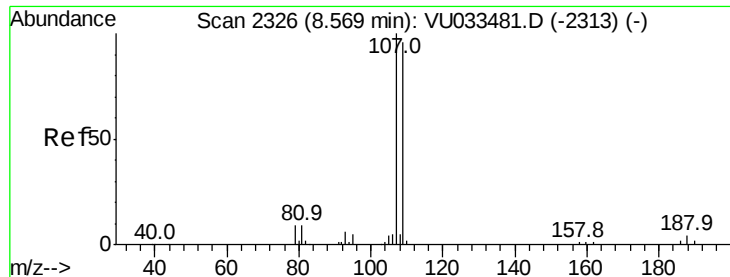
Tot Ion:	43	Resp:	14728
Ion	Ratio	Lower	Upper
43	100		
58	54.3	46.6	69.8
57	18.3	16.0	24.0
100	9.5	9.5	14.3



#49
Dibromochloromethane
Concen: 2.125 ug/L
RT: 8.46 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

Tgt Ion:	129	Resp:	5469
Ion	Ratio	Lower	Upper
129	100		
127	77.7	54.5	101.1

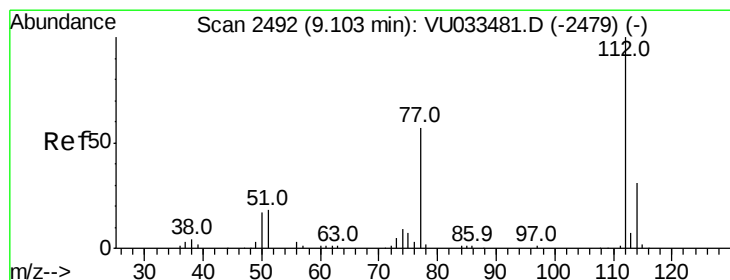
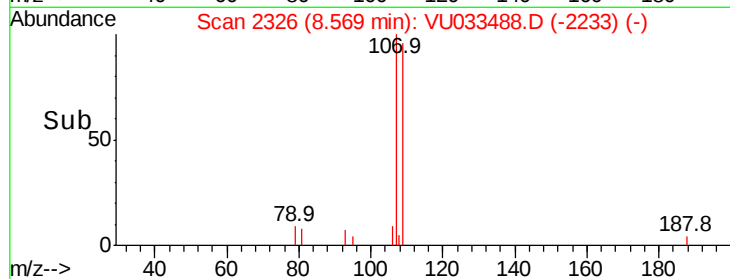
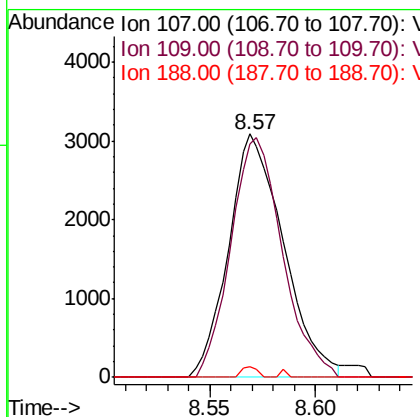
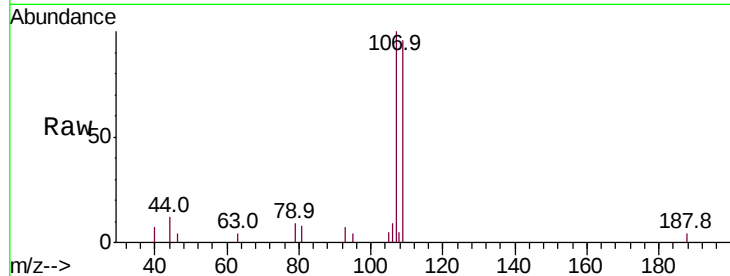




#50
 1,2-Dibromoethane
 Concen: 2.243 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

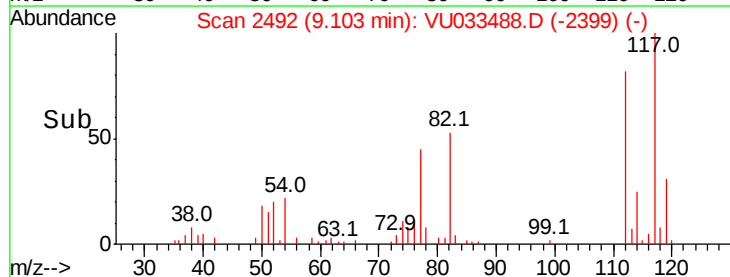
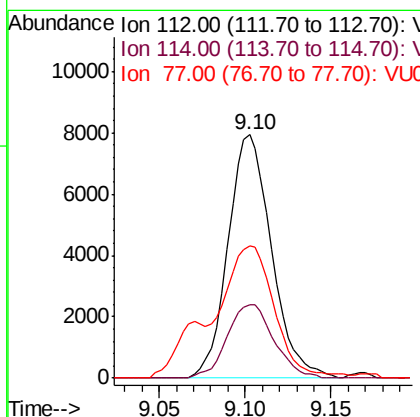
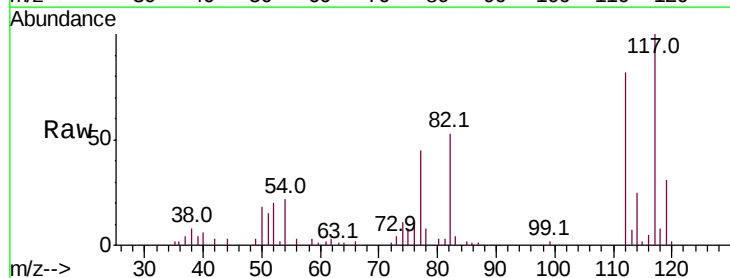
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

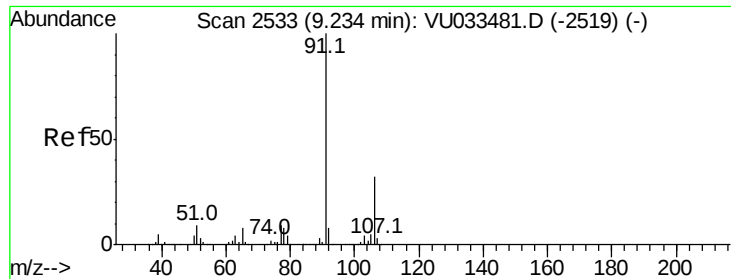
Tot Ion:107 Resp: 5593
 Ion Ratio Lower Upper
 107 100
 109 96.0 64.7 120.1
 188 4.5 2.8 4.2#



#51
 Chlorobenzene
 Concen: 2.173 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

Tgt Ion:112 Resp: 13925
 Ion Ratio Lower Upper
 112 100
 114 29.9 21.9 40.7
 77 54.5 46.1 69.1





#52

Ethylbenzene

Concen: 2.068 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

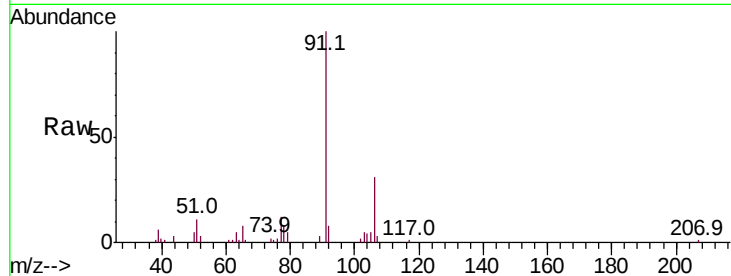
MDL04

Tot Ion: 91 Resp: 21623

Ion Ratio Lower Upper

91 100

106 30.9 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU033488.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033488.D (-2519) (-)

9.23

15000

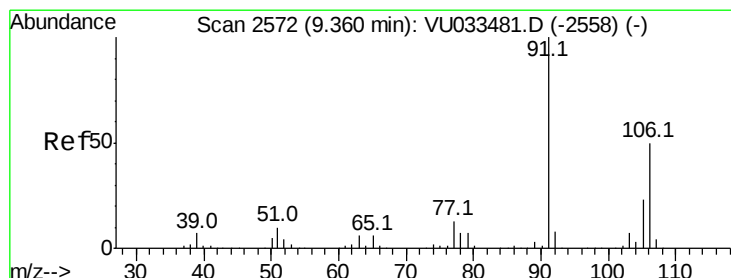
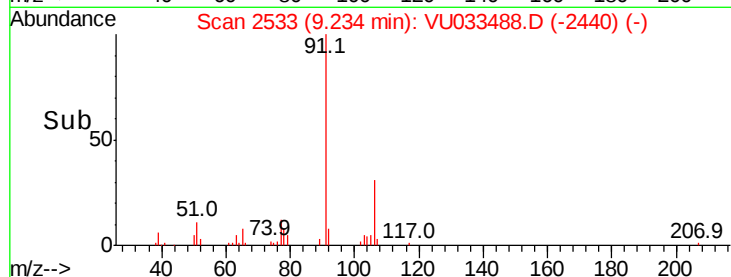
10000

5000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 2.041 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033488.D

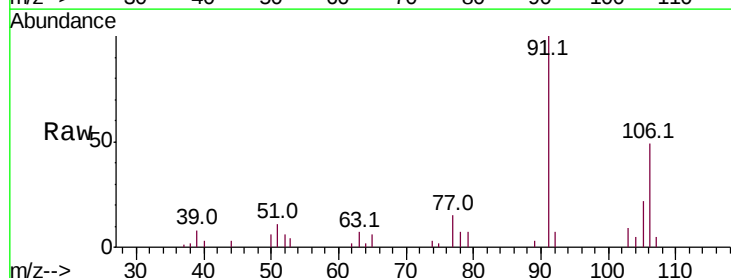
Acq: 30 Jul 2019 12:35

Tgt Ion: 106 Resp: 8024

Ion Ratio Lower Upper

106 100

91 202.2 140.7 261.3



Abundance Ion 106.00 (105.70 to 106.70): VU033488.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033488.D (-2558) (-)

9.36

10000

8000

6000

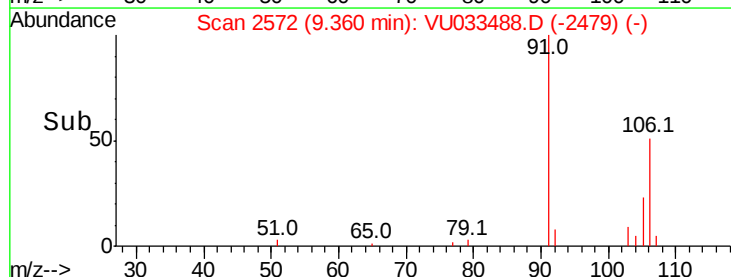
4000

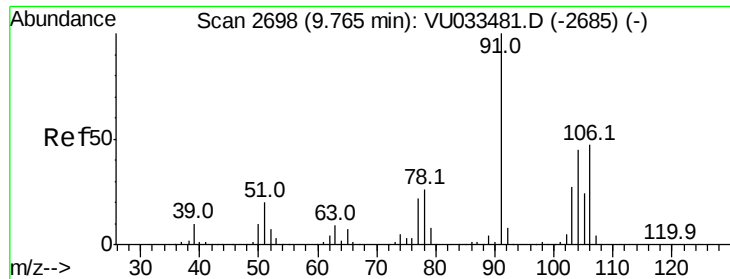
2000

0

9.30 9.35 9.40

Time-->





#54

o-xylene

Concen: 1.967 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

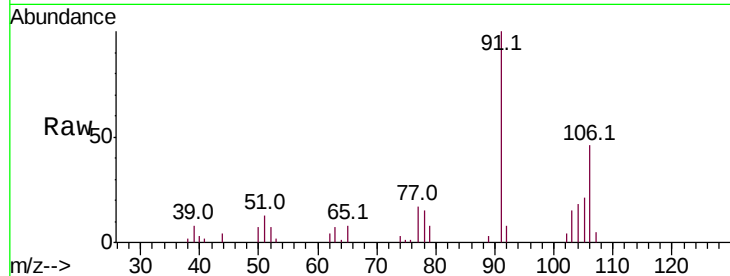
MDL04

Tot Ion:106 Resp: 7580

Ion Ratio Lower Upper

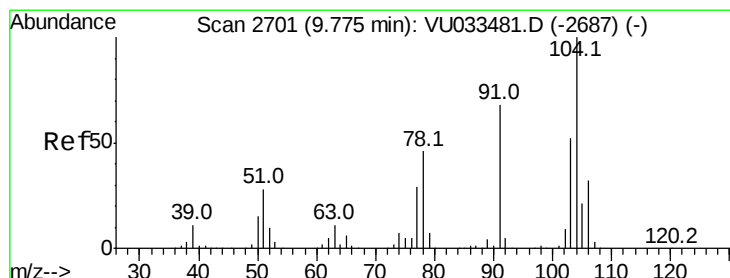
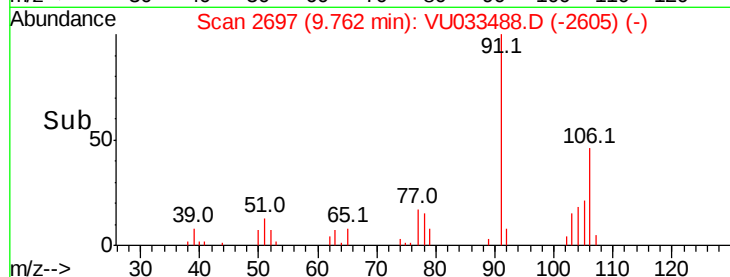
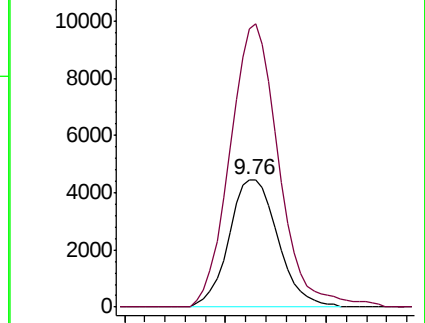
106 100

91 218.7 151.1 280.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.749 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033488.D

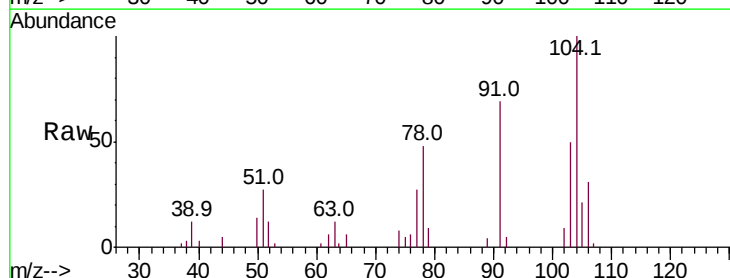
Acq: 30 Jul 2019 12:35

Tgt Ion:104 Resp: 11443

Ion Ratio Lower Upper

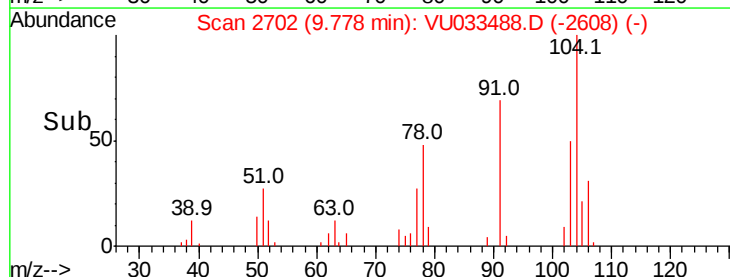
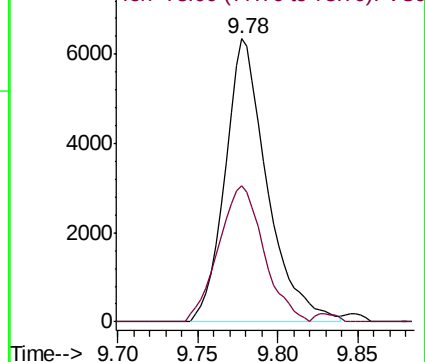
104 100

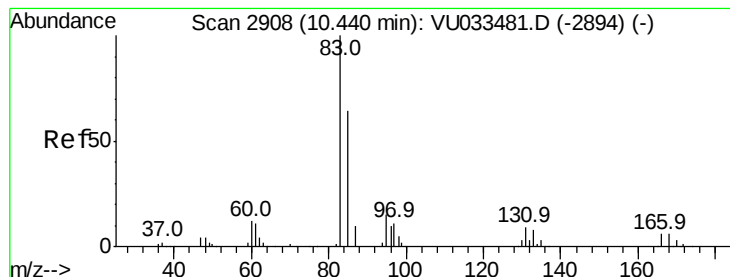
78 48.0 32.6 60.5



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: 2.596 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

MDL04

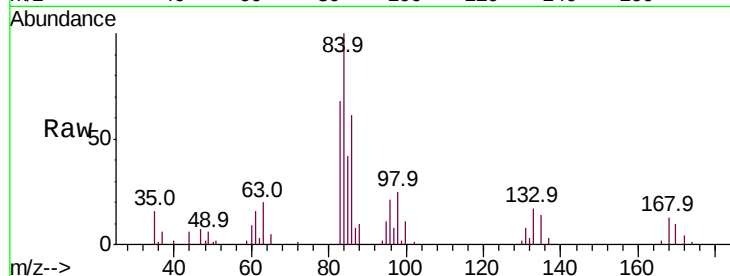
Tot Ion: 83 Resp: 10611

Ion Ratio Lower Upper

83 100

85 62.4 45.9 85.3

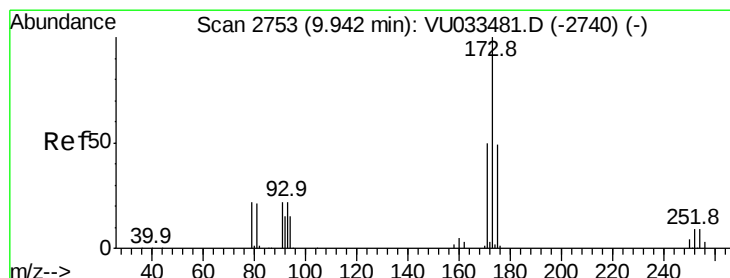
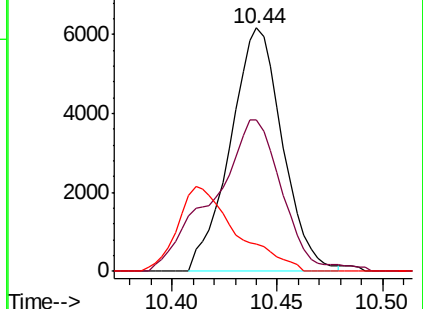
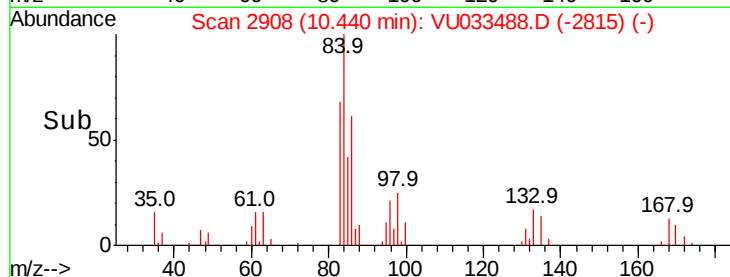
131 11.2 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VU033488.D (-2894) (-)

Ion 85.00 (84.70 to 85.70): VU033488.D (-2894) (-)

Ion 131.00 (130.70 to 131.70): VU033488.D (-2894) (-)



#59

Bromoform

Concen: 2.426 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

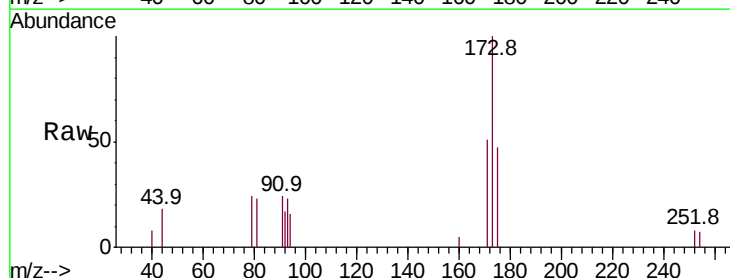
Tgt Ion: 173 Resp: 4209

Ion Ratio Lower Upper

173 100

175 47.6 38.1 57.1

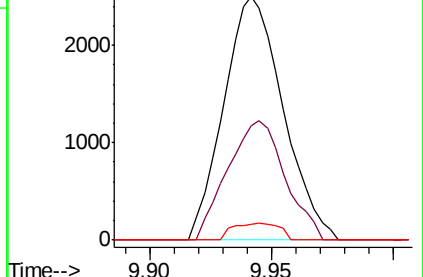
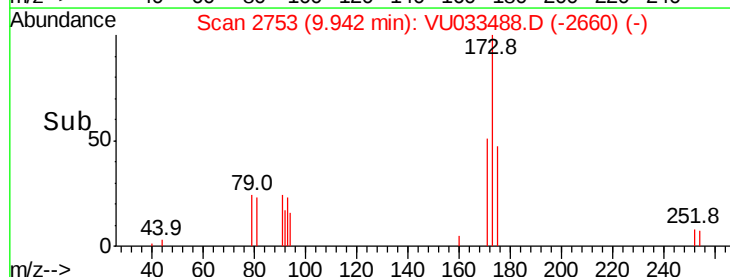
254 5.6 7.3 10.9#

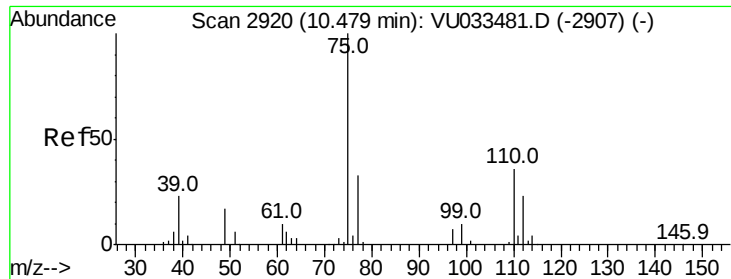


Abundance Ion 173.00 (172.70 to 173.70): VU033488.D (-2660) (-)

Ion 175.00 (174.70 to 175.70): VU033488.D (-2660) (-)

Ion 254.00 (253.70 to 254.70): VU033488.D (-2660) (-)





#60

1,2,3-Trichloropropane

Concen: 2.630 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

MDL04

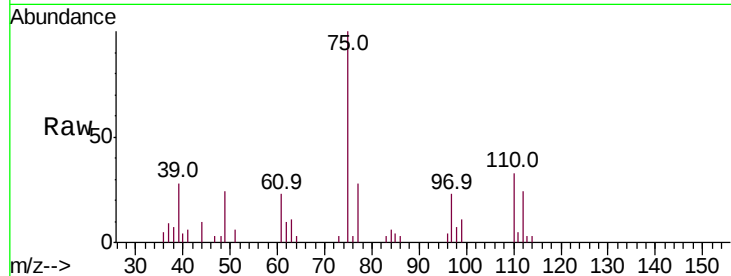
Tot Ion: 75 Resp: 7432

Ion Ratio Lower Upper

75 100

77 29.7 25.9 38.9

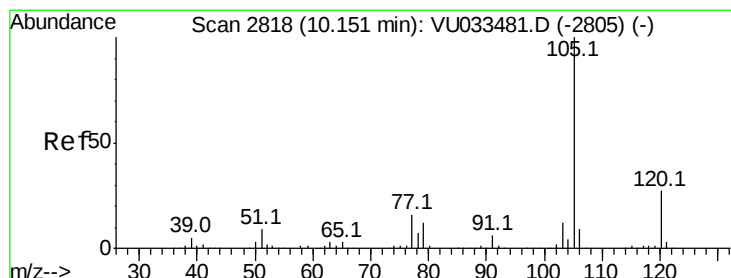
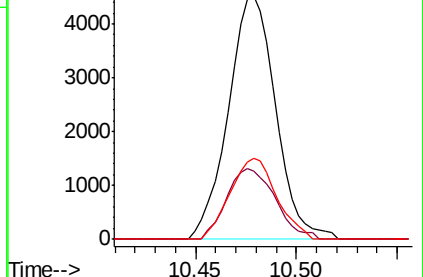
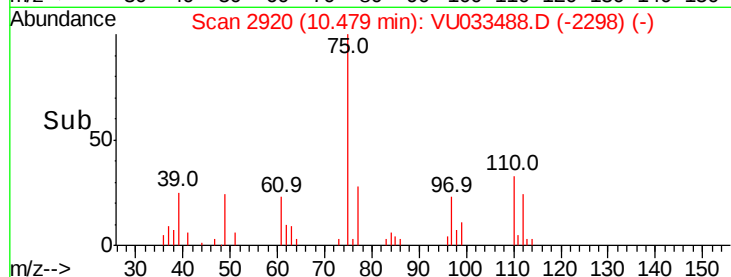
110 32.7 30.2 45.4



Abundance Ion 75.00 (74.70 to 75.70): VU033481.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033481.D (-2907) (-)

Ion 110.00 (109.70 to 110.70): VU033481.D (-2907) (-)



#61

Isopropylbenzene

Concen: 2.107 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

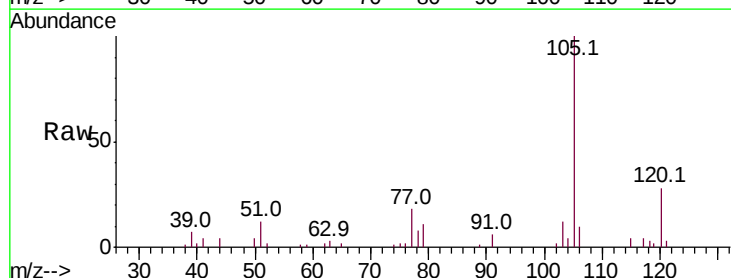
Tgt Ion: 105 Resp: 18719

Ion Ratio Lower Upper

105 100

120 26.3 21.7 32.5

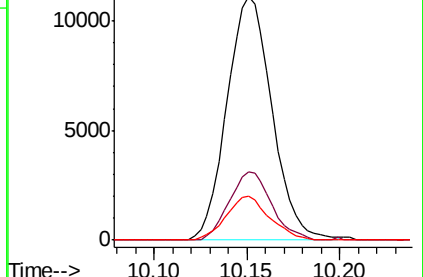
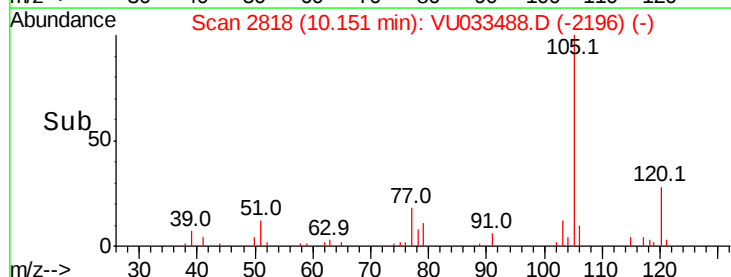
77 17.4 12.6 19.0

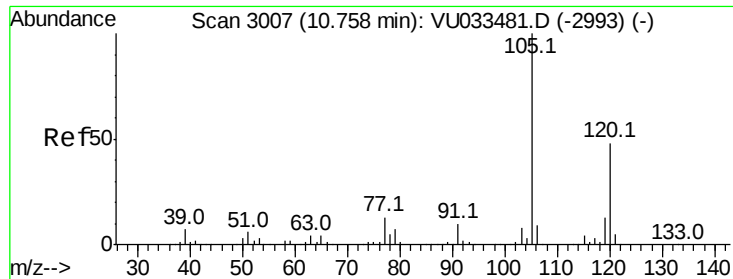


Abundance Ion 105.00 (104.70 to 105.70): VU033481.D (-2805) (-)

Ion 120.00 (119.70 to 120.70): VU033481.D (-2805) (-)

Ion 77.00 (76.70 to 77.70): VU033481.D (-2805) (-)

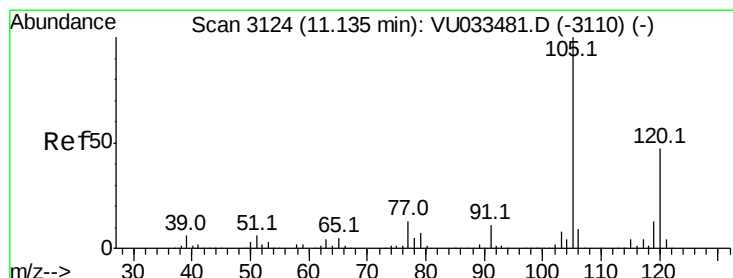
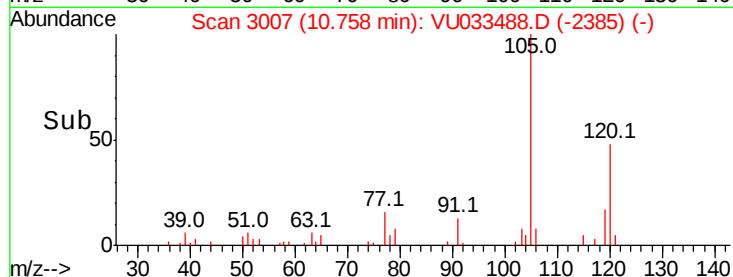
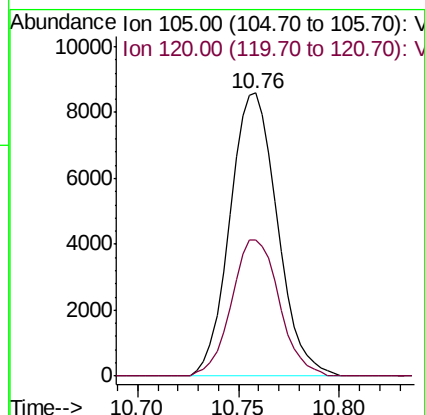
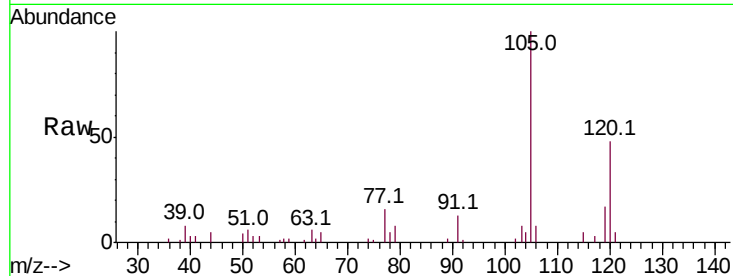




#62
 1,3,5-Trimethylbenzene
 Concen: 1.965 ug/L
 RT: 10.76 min Scan# 3007
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

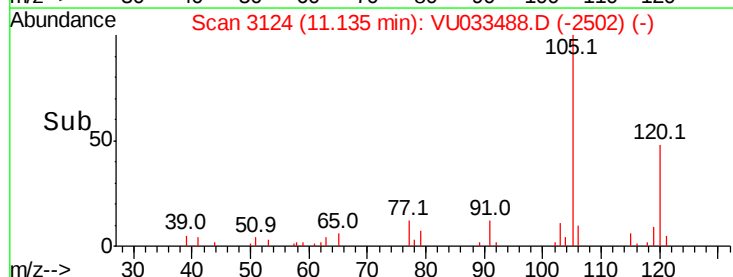
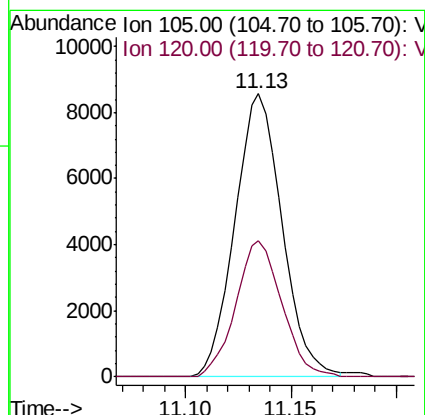
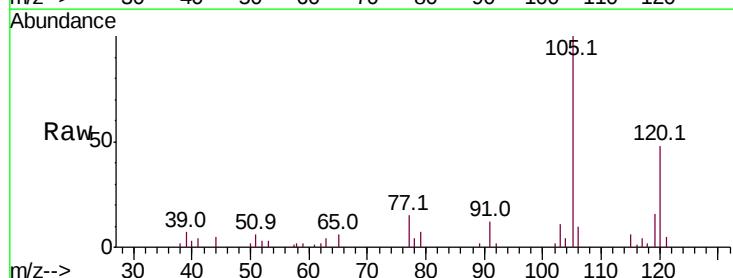
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL04

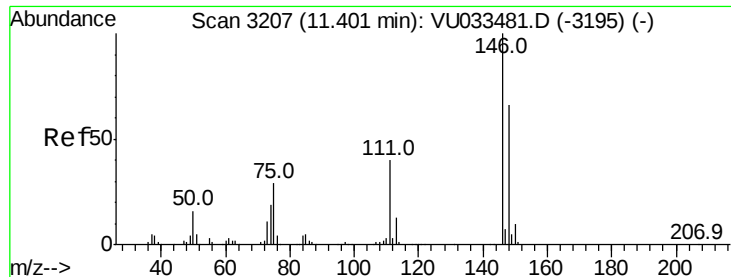
Tot Ion:105 Resp: 14143
 Ion Ratio Lower Upper
 105 100
 120 48.5 39.0 58.6



#63
 1,2,4-Trimethylbenzene
 Concen: 1.867 ug/L
 RT: 11.13 min Scan# 3124
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

Tgt Ion:105 Resp: 13327
 Ion Ratio Lower Upper
 105 100
 120 46.9 36.6 55.0





#64

1,3-Dichlorobenzene

Concen: 2.289 ug/L

RT: 11.40 min Scan# 3208

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

MDL04

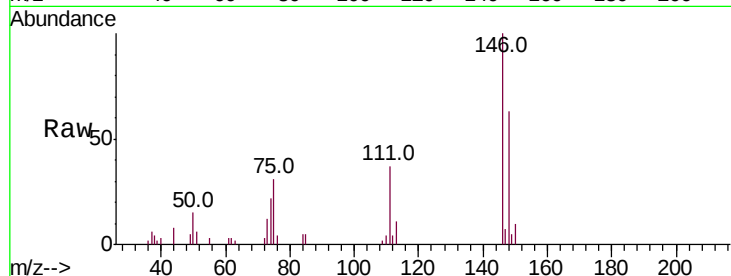
Tot Ion:146 Resp: 10365

Ion Ratio Lower Upper

146 100

111 36.5 28.2 52.4

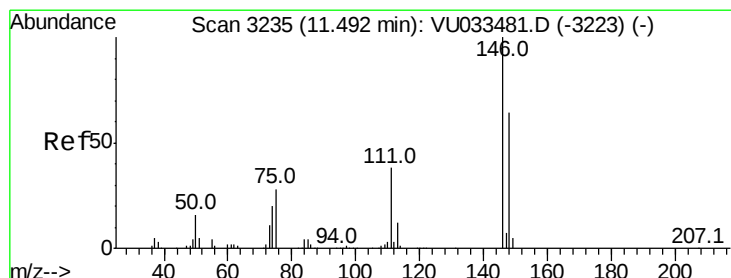
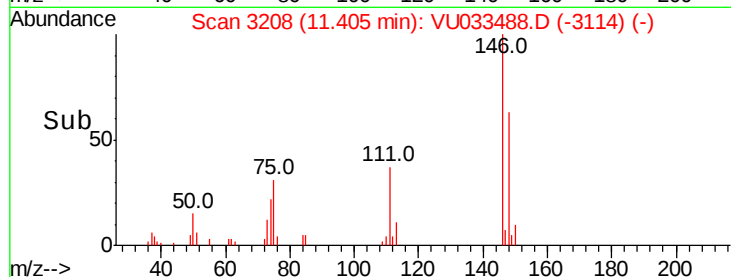
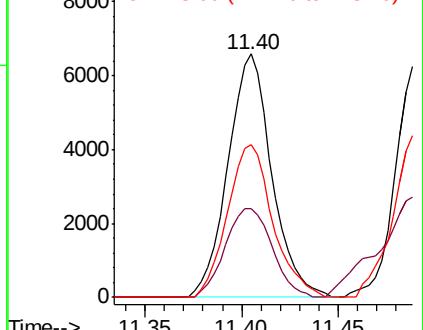
148 62.6 44.4 82.5



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



#65

1,4-Dichlorobenzene

Concen: 2.415 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033488.D

Acq: 30 Jul 2019 12:35

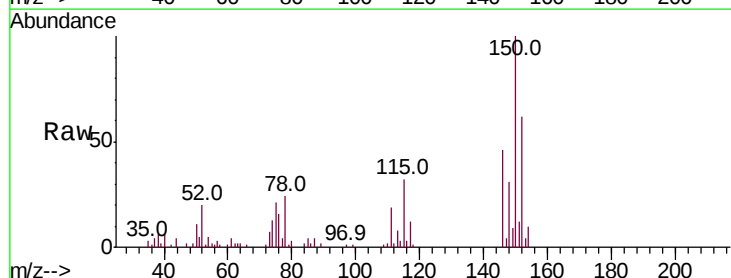
Tgt Ion:146 Resp: 11298

Ion Ratio Lower Upper

146 100

111 41.3 27.0 50.2

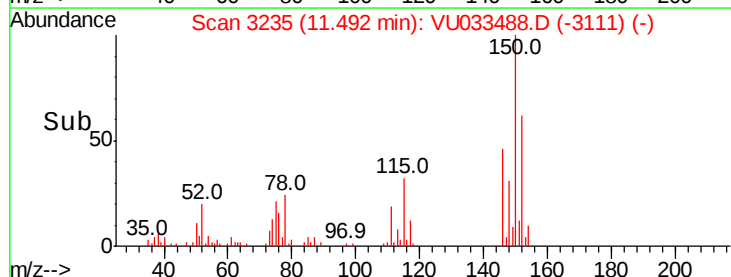
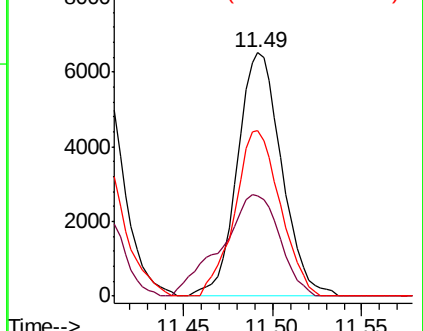
148 67.8 44.7 82.9

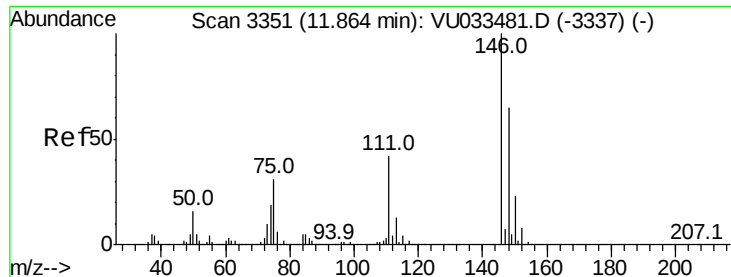


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

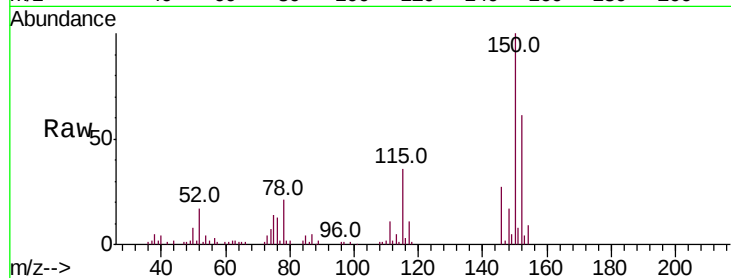




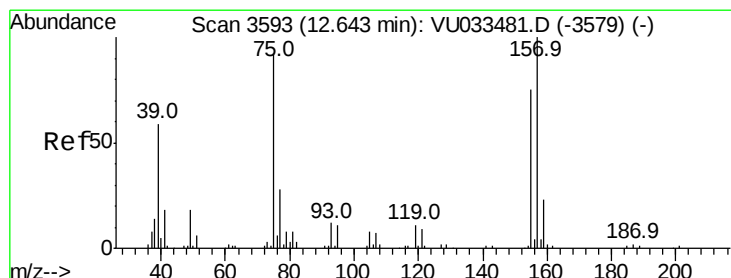
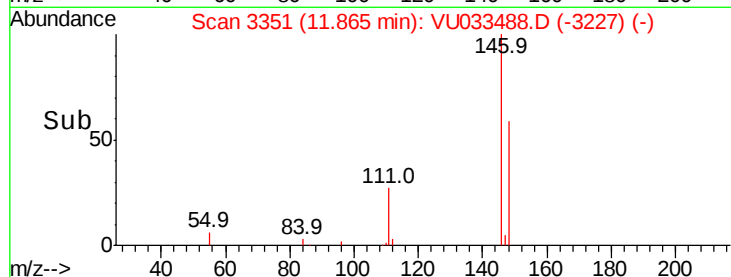
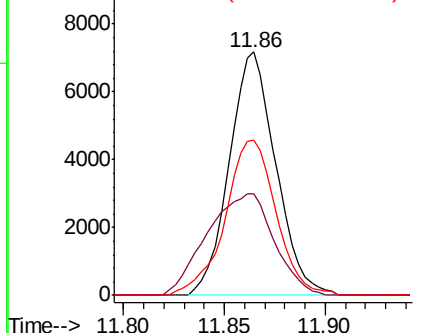
#67
 1,2-Dichlorobenzene
 Concen: 2.555 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:146 Resp: 11593
 Ion Ratio Lower Upper
 146 100
 111 41.6 32.8 49.2
 148 63.7 49.2 73.8

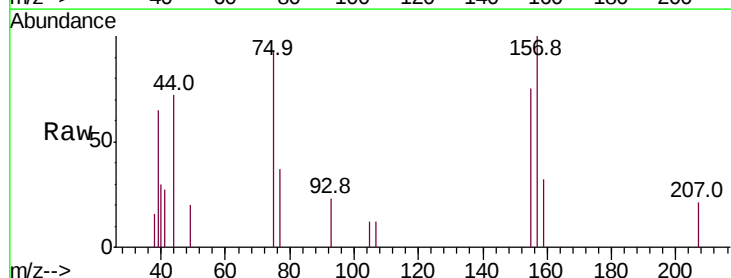


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

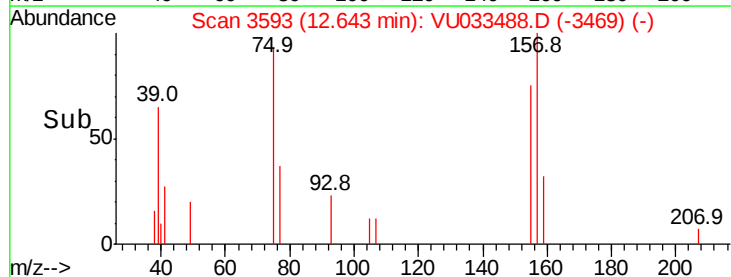
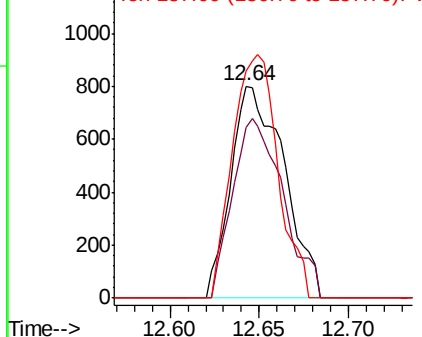


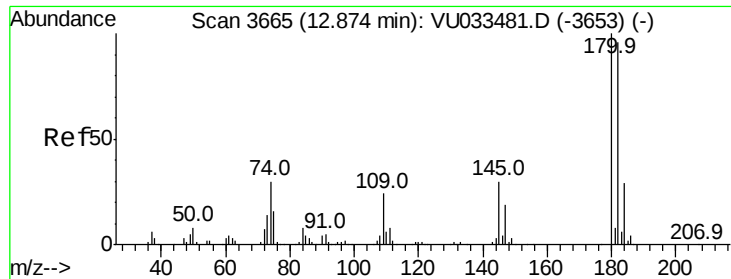
#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.113 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

Tgt Ion: 75 Resp: 1660
 Ion Ratio Lower Upper
 75 100
 155 80.8 64.8 97.2
 157 107.0 87.1 130.7



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

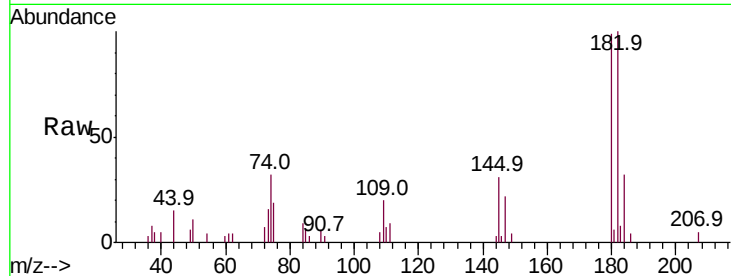




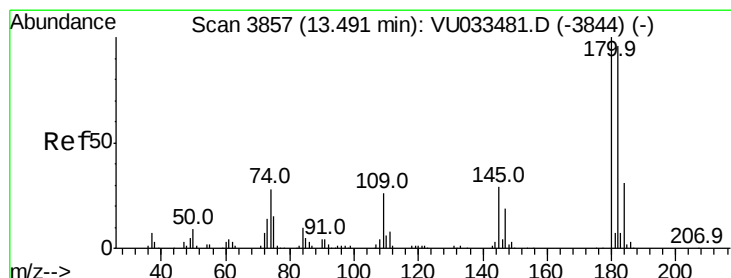
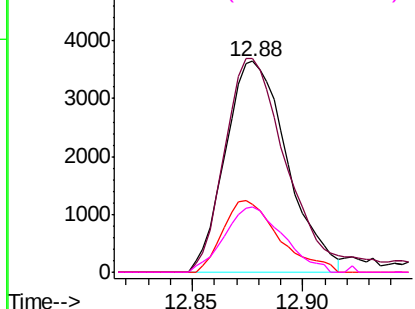
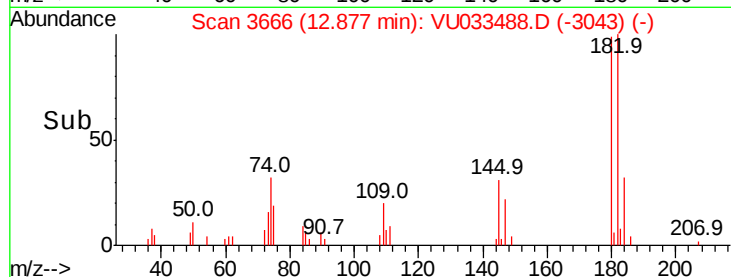
#69
 1,3,5-Trichlorobenzene
 Concen: 2.069 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:180 Resp: 7116
 Ion Ratio Lower Upper
 180 100
 182 103.1 76.2 114.4
 184 30.6 24.1 36.1
 145 29.3 23.7 35.5

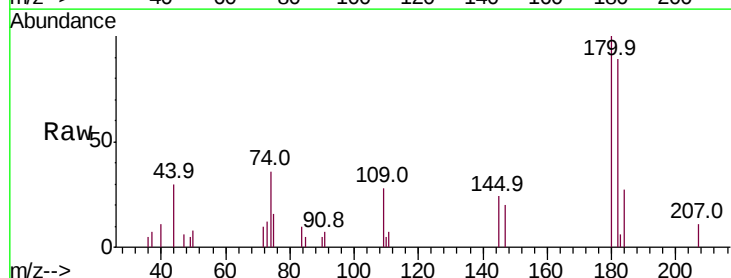


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

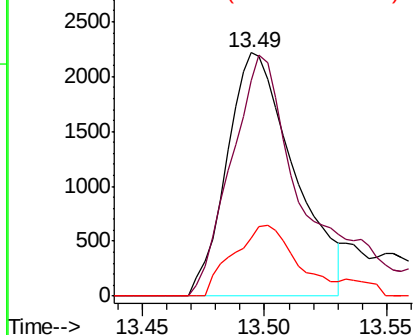
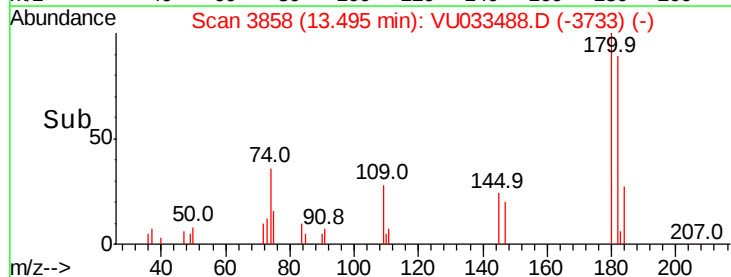


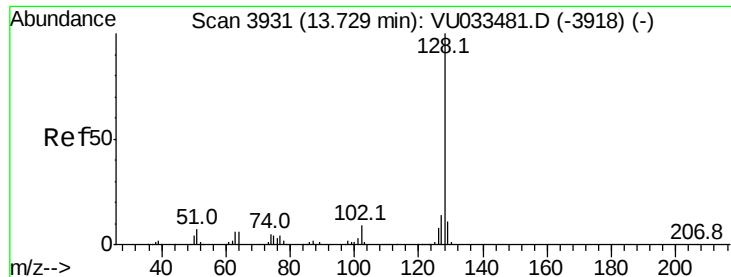
#70
 1,2,4-trichlorobenzene
 Concen: 1.480 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.00 min
 Lab File: VU033488.D
 Acq: 30 Jul 2019 12:35

Tgt Ion:180 Resp: 4248
 Ion Ratio Lower Upper
 180 100
 182 98.6 77.5 116.3
 145 27.6 23.9 35.9



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

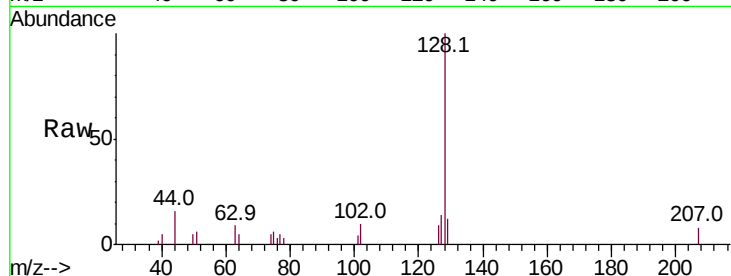




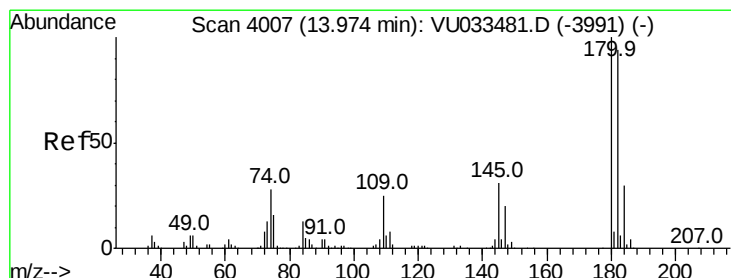
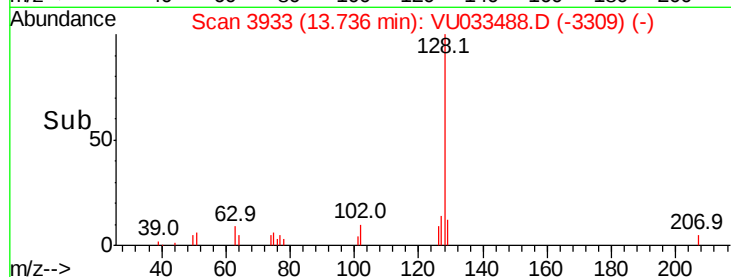
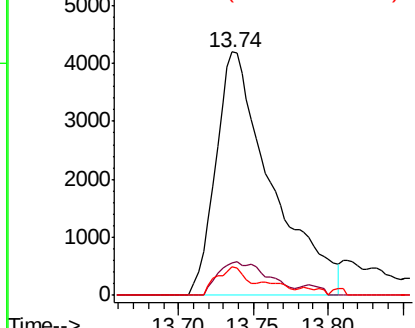
#71
Naphthalene
Concen: 1.307 ug/L
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion:128 Resp: 10844
Ion Ratio Lower Upper
128 100
127 7.0 10.8 16.2#
129 6.4 8.7 13.1#

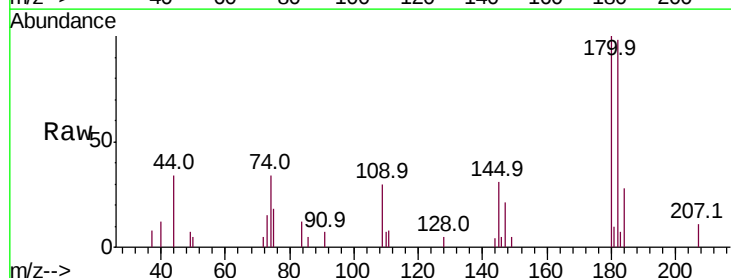


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 1.700 ug/L
RT: 13.98 min Scan# 4008
Delta R.T. 0.00 min
Lab File: VU033488.D
Acq: 30 Jul 2019 12:35

Tgt Ion:180 Resp: 5110
Ion Ratio Lower Upper
180 100
182 93.2 76.4 114.6
145 27.9 24.9 37.3



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

