

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
 Data File : VY023145.D
 Acq On : 19 Aug 2025 12:54
 Operator : SY/MD
 Sample : Q2870-01
 Misc : 5.22g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DRILL CUTTING 1-5 COMP

Quant Time: Aug 20 01:28:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

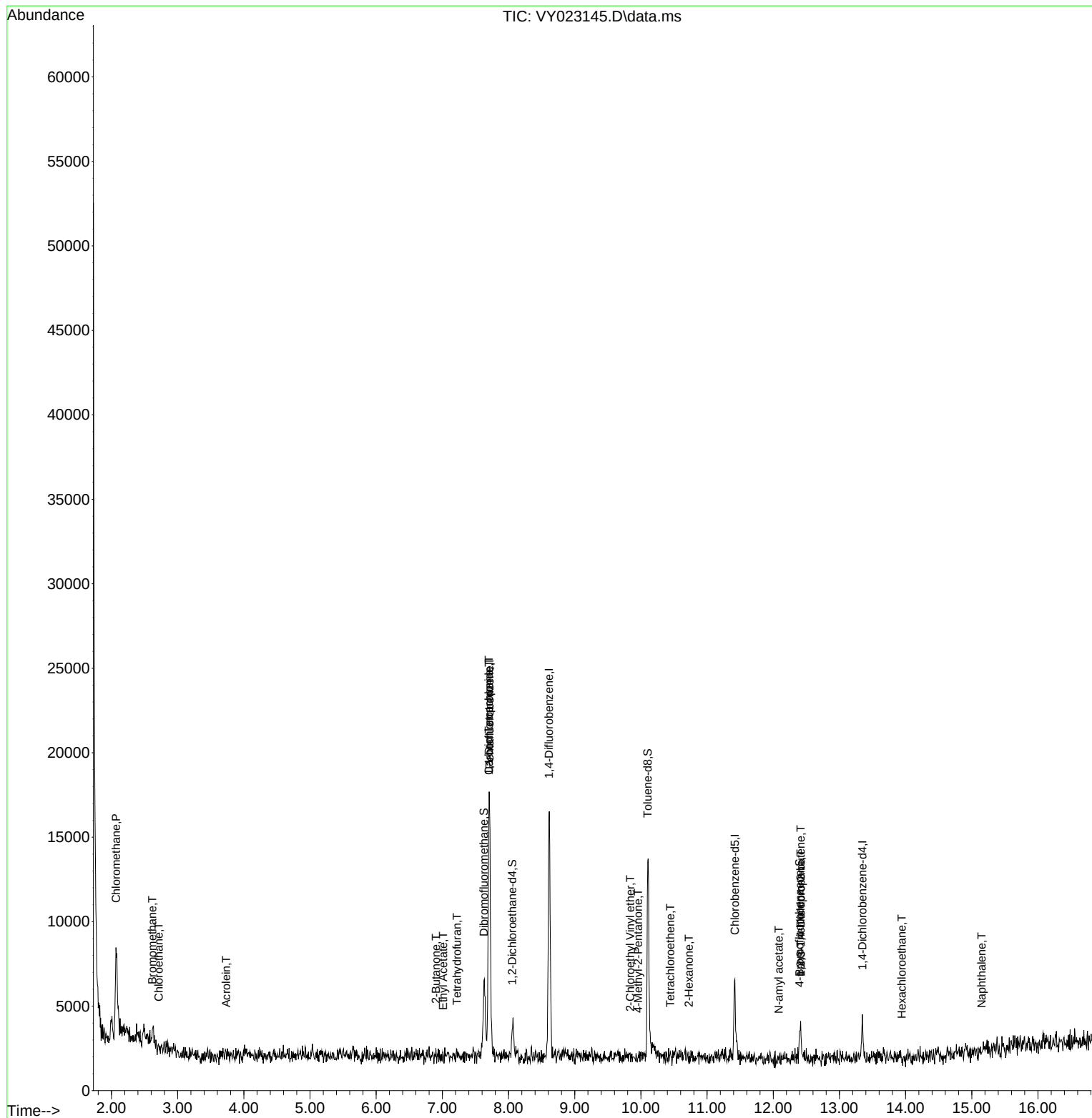
Internal Standards						
1) Pentafluorobenzene	7.713	168	12785	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	13092	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	3304	50.000	ug/l	# 0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	706	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	1870	15.347	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	30.700%#
35) Dibromofluoromethane	7.628	113	3725	47.550	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.100%
50) Toluene-d8	10.103	98	8757	28.614	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	57.220%#
62) 4-Bromofluorobenzene	12.395	95	879	8.931	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	17.860%#
Target Compounds						Qvalue
3) Chloromethane	2.068	50	230	1.361	ug/l	93
5) Bromomethane	2.617	94	311	1.993	ug/l	94
6) Chloroethane	2.714	64	350	2.520	ug/l	# 42
13) Acrolein	3.732	56	40	3.271	ug/l	86
20) Methylene Chloride	4.586	84	77	Below Cal	#	8
25) 2-Butanone	6.902	43	59	1.643	ug/l	# 45
29) Tetrahydrofuran	7.219	42	54	2.426	ug/l	# 29
36) 1,1-Dichloropropene	7.701	75	1112	9.551	ug/l	# 41
37) Ethyl Acetate	7.012	43	51	1.043	ug/l	# 67
38) Carbon Tetrachloride	7.701	117	1287	10.178	ug/l	# 13
51) 4-Methyl-2-Pentanone	9.957	43	57	1.118	ug/l	# 34
58) 2-Chloroethyl Vinyl ether	9.841	63	41	1.071	ug/l	# 46
59) 2-Hexanone	10.725	43	75	2.160	ug/l	# 21
64) Tetrachloroethene	10.444	164	40	1.356	ug/l	# 1
74) N-amyl acetate	12.084	43	35	3.312	ug/l	# 34
76) 1,2,3-Trichloropropane	12.414	75	456	66.925	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.414	75	456	162.003	ug/l	# 14
90) Hexachloroethane	13.944	117	18	1.983	ug/l	# 11
95) Naphthalene	15.151	128	57	2.749	ug/l	# 69

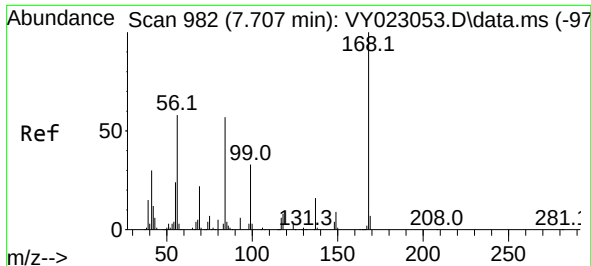
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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DRILL CUTTING 1-5 COMP

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

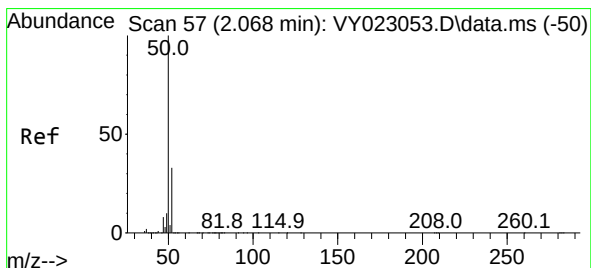
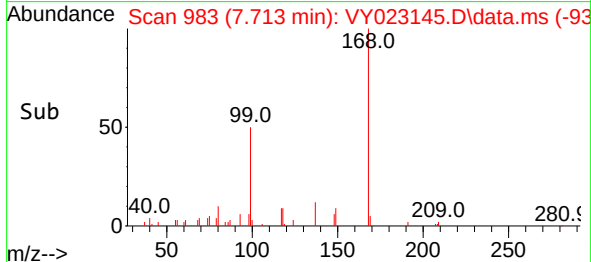
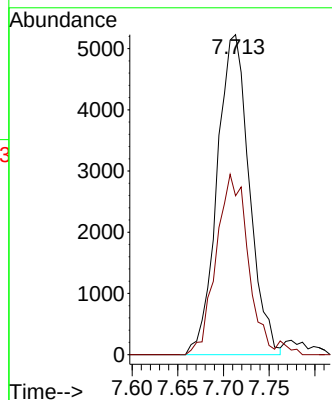
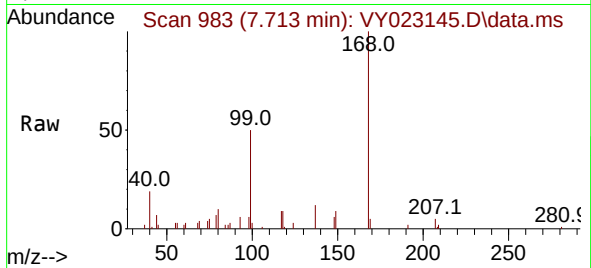




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

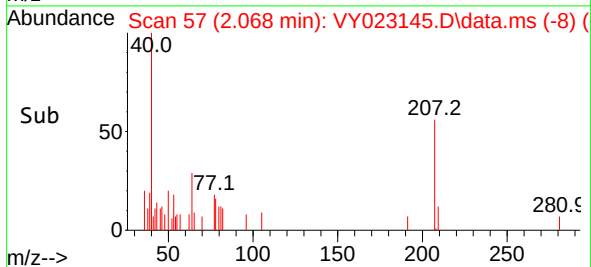
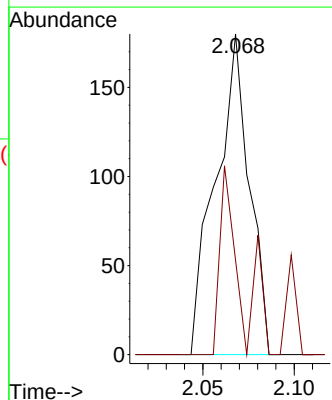
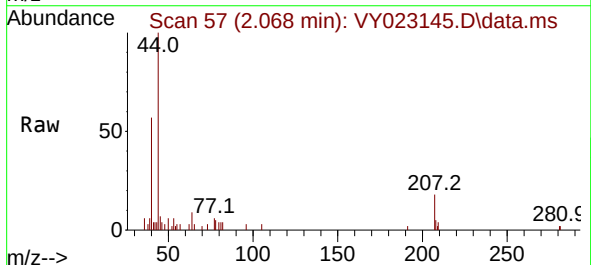
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MSVOA_Y
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DRILL CUTTING 1-5 COMP

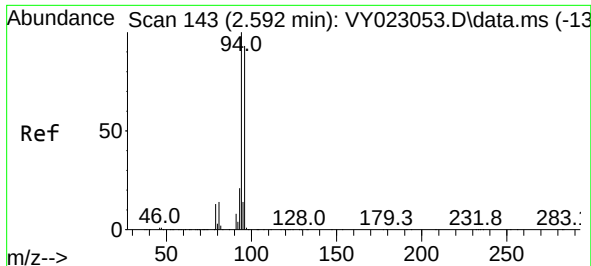
Tgt Ion:168 Resp: 12785
Ion Ratio Lower Upper
168 100
99 49.7 42.8 64.2



#3
Chloromethane
Concen: 1.361 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 50 Resp: 230
Ion Ratio Lower Upper
50 100
52 29.4 26.7 40.1

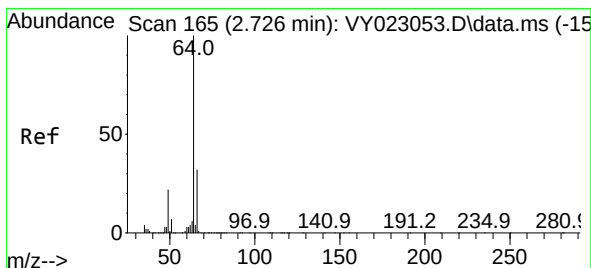
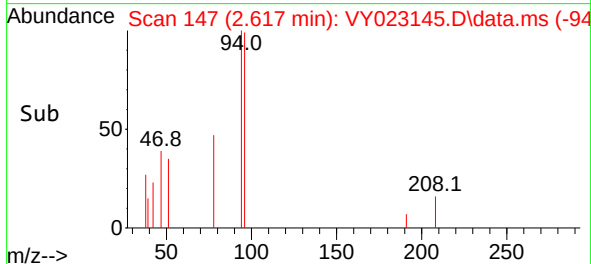
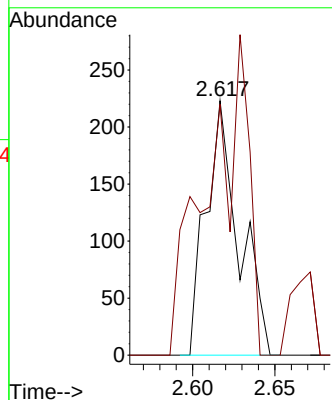
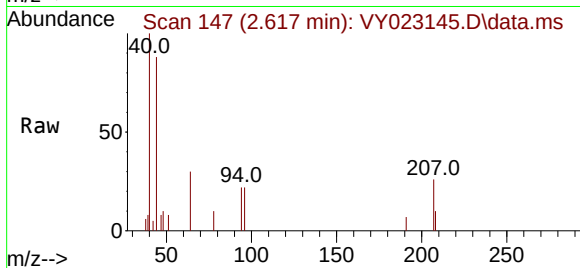




#5
Bromomethane
Concen: 1.993 ug/l
RT: 2.617 min Scan# 14
Delta R.T. 0.024 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

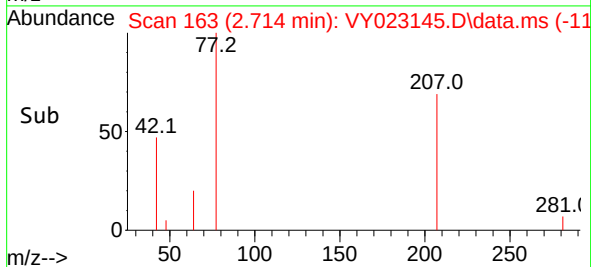
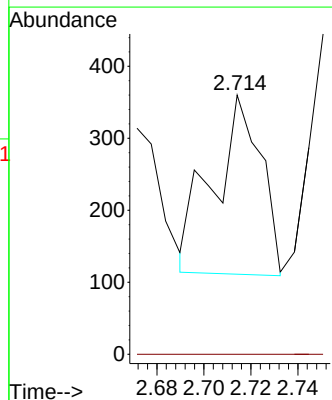
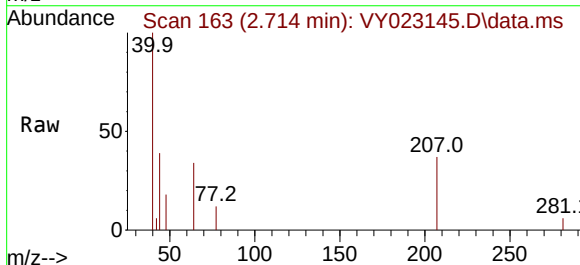
Instrument :
MSVOA_Y
ClientSampleId :
DRILL CUTTING 1-5 COMP

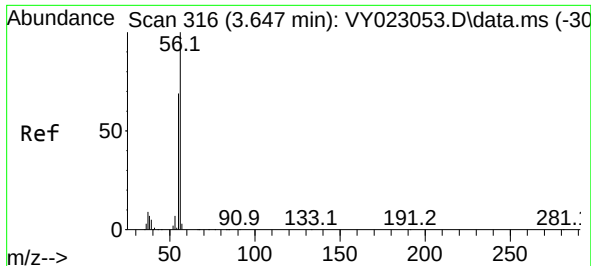
Tgt Ion: 94 Resp: 311
Ion Ratio Lower Upper
94 100
96 98.7 74.6 112.0



#6
Chloroethane
Concen: 2.520 ug/l
RT: 2.714 min Scan# 163
Delta R.T. -0.012 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 64 Resp: 350
Ion Ratio Lower Upper
64 100
66 0.0 25.8 38.6#

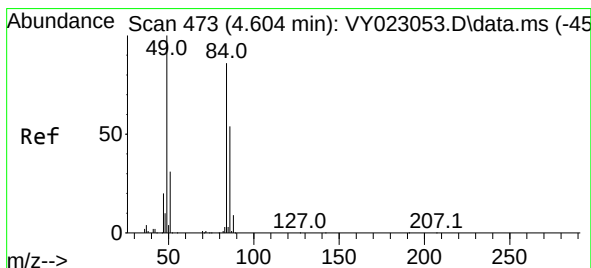
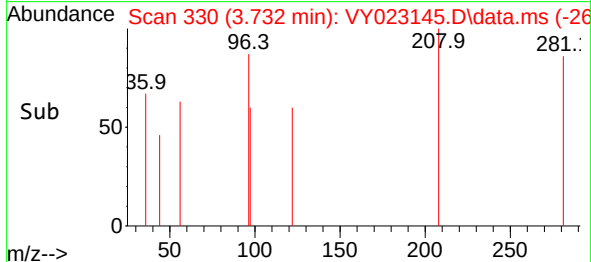
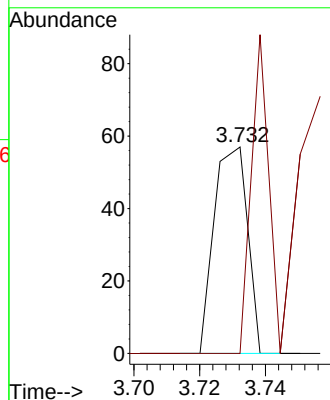
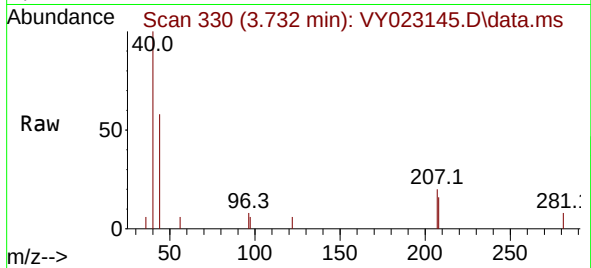




#13
Acrolein
Concen: 3.271 ug/l
RT: 3.732 min Scan# 316
Delta R.T. 0.085 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

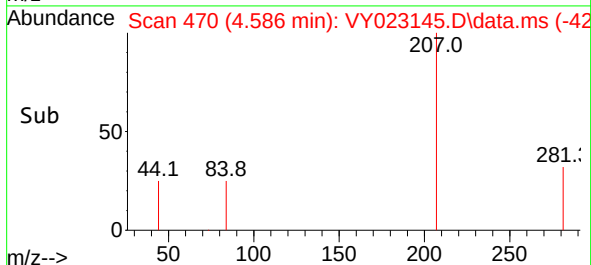
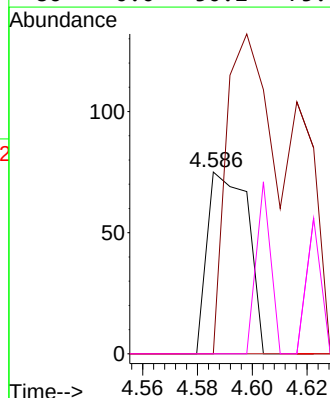
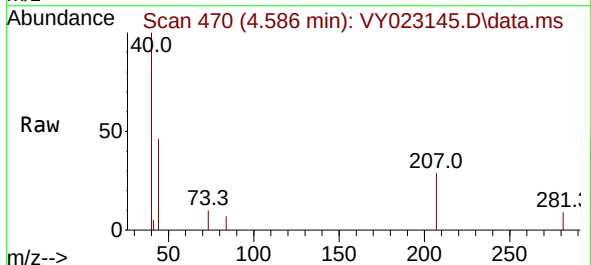
Instrument :
MSVOA_Y
ClientSampleId :
DRILL CUTTING 1-5 COMP

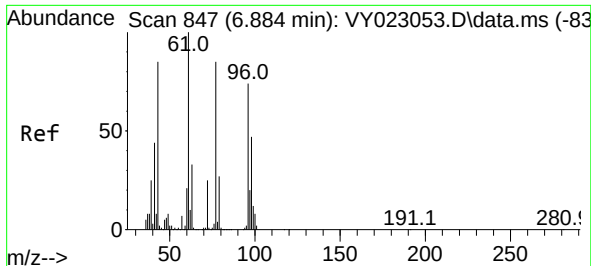
Tgt Ion: 56 Resp: 40
Ion Ratio Lower Upper
56 100
55 80.0 55.2 82.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.586 min Scan# 470
Delta R.T. -0.018 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 84 Resp: 77
Ion Ratio Lower Upper
84 100
49 0.0 93.0 139.6#
51 0.0 29.0 43.4#
86 0.0 50.2 75.4#

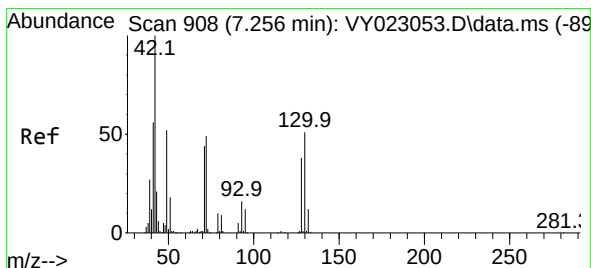
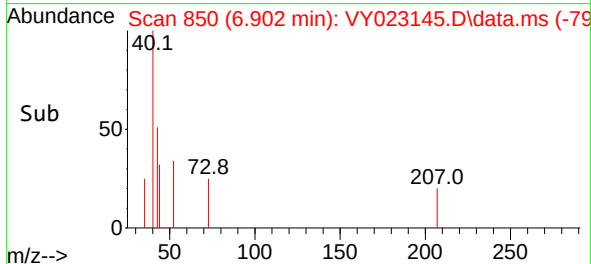
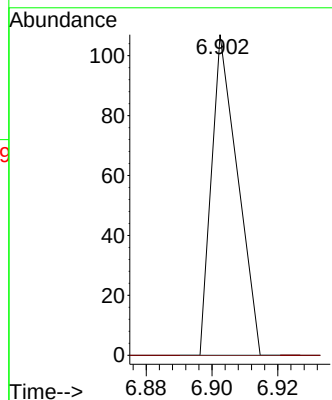
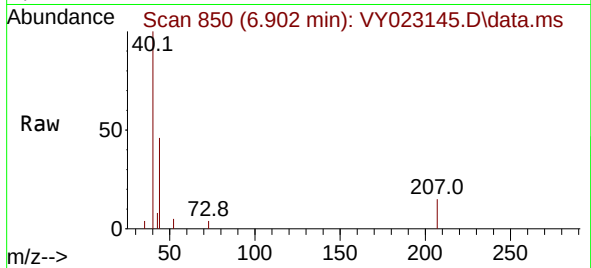




#25
2-Butanone
Concen: 1.643 ug/l
RT: 6.902 min Scan# 847
Delta R.T. 0.018 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

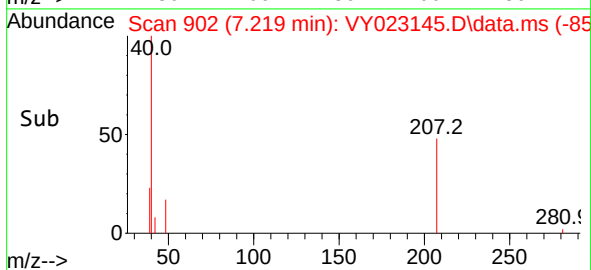
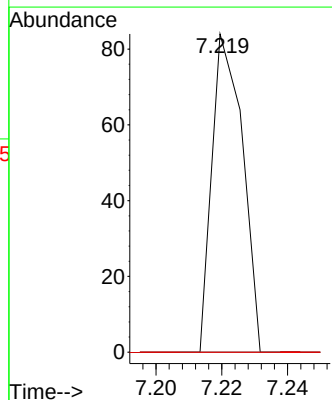
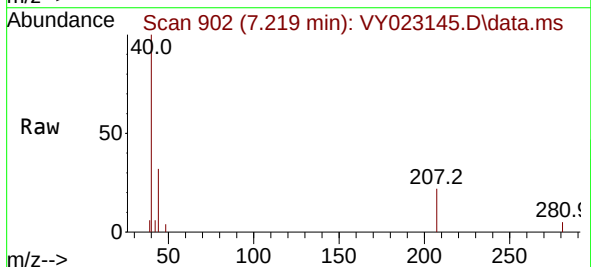
Instrument :
MSVOA_Y
ClientSampleId :
DRILL CUTTING 1-5 COMP

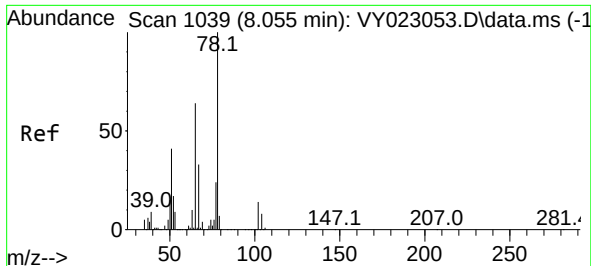
Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
72 0.0 23.5 35.3#



#29
Tetrahydrofuran
Concen: 2.426 ug/l
RT: 7.219 min Scan# 902
Delta R.T. -0.037 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 42 Resp: 54
Ion Ratio Lower Upper
42 100
72 0.0 39.4 59.2#
71 0.0 36.5 54.7#





#33

1,2-Dichloroethane-d4

Concen: 15.347 ug/l

RT: 8.055 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY023145.D

Acq: 19 Aug 2025 12:54

Instrument :

MSVOA_Y

ClientSampleId :

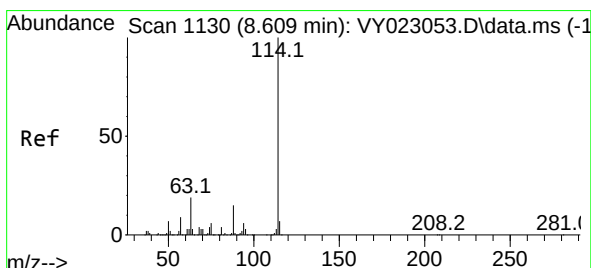
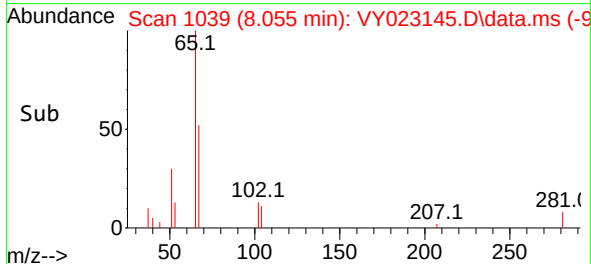
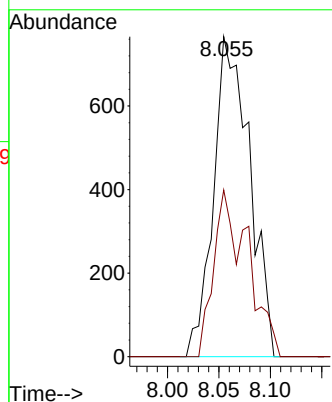
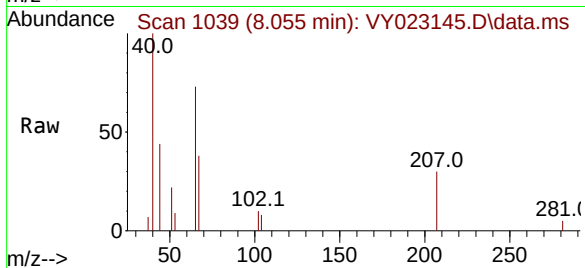
DRILL CUTTING 1-5 COMP

Tgt Ion: 65 Resp: 1870

Ion Ratio Lower Upper

65 100

67 49.1 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VY023145.D

Acq: 19 Aug 2025 12:54

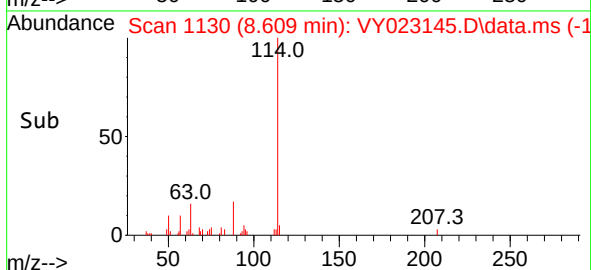
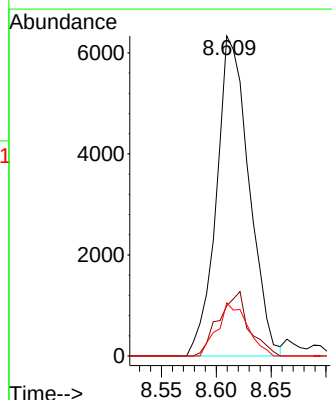
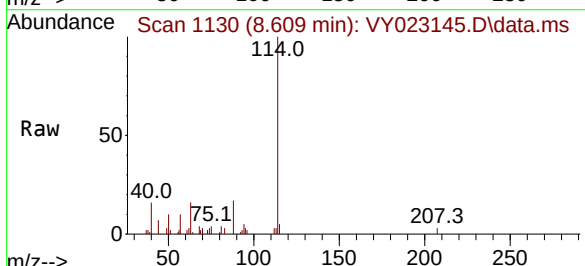
Tgt Ion:114 Resp: 13092

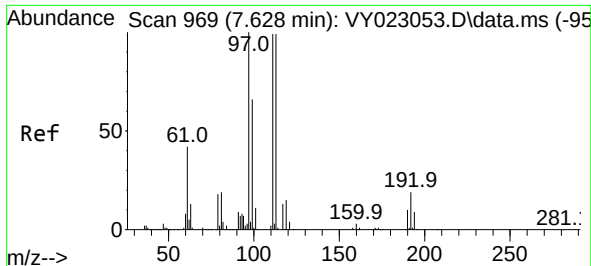
Ion Ratio Lower Upper

114 100

63 15.7 0.0 38.4

88 16.6 0.0 30.0

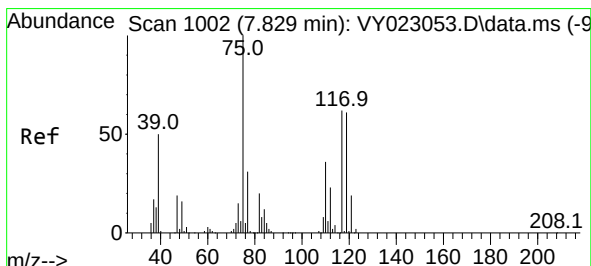
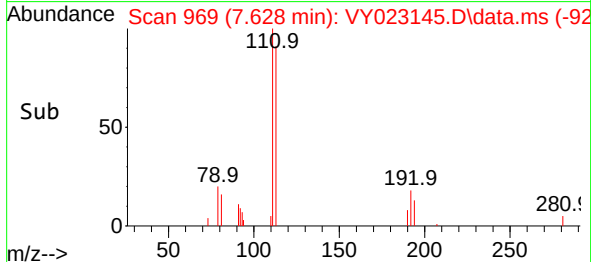
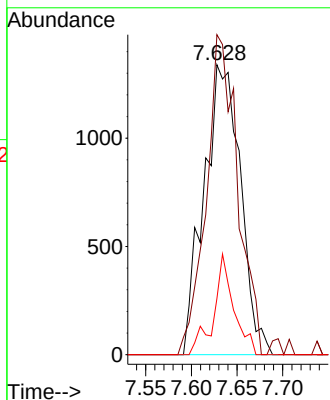
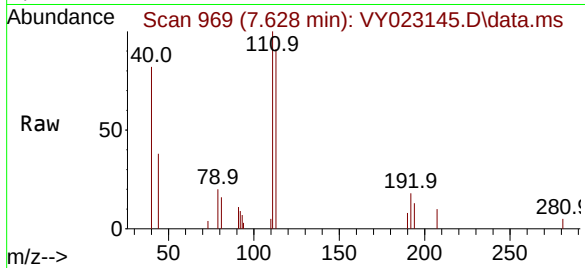




#35
Dibromofluoromethane
Concen: 47.550 ug/l
RT: 7.628 min Scan# 901
Delta R.T. 0.000 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

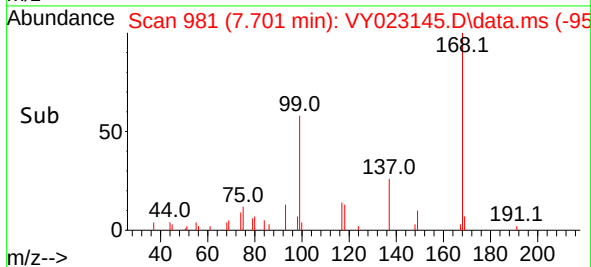
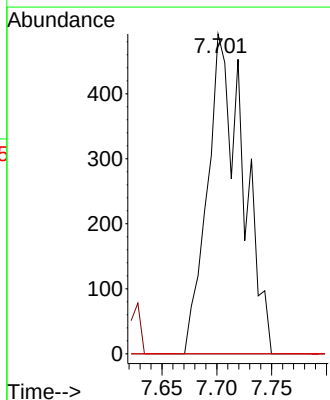
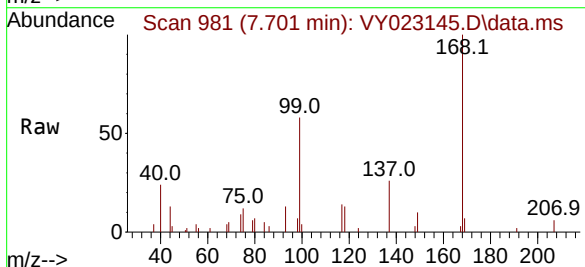
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DRILL CUTTING 1-5 COMP

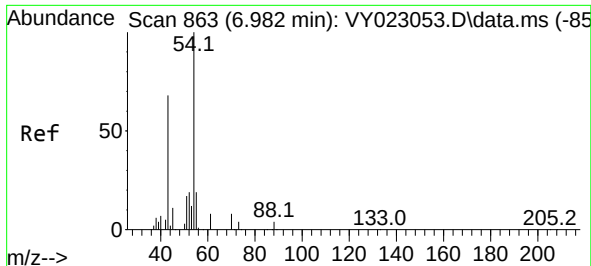
Tgt Ion:113 Resp: 3725
Ion Ratio Lower Upper
113 100
111 94.8 81.1 121.7
192 19.1 16.2 24.4



#36
1,1-Dichloropropene
Concen: 9.551 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.128 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 75 Resp: 1112
Ion Ratio Lower Upper
75 100
110 0.0 18.1 54.4#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.043 ug/l

RT: 7.012 min Scan# 80

Delta R.T. 0.031 min

Lab File: VY023145.D

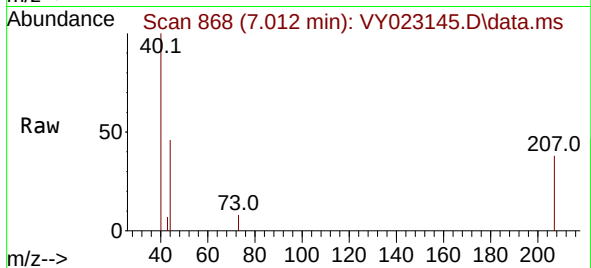
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Instrument :

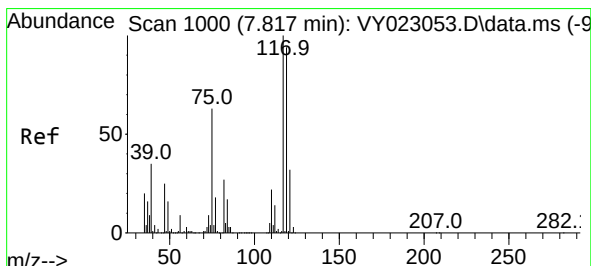
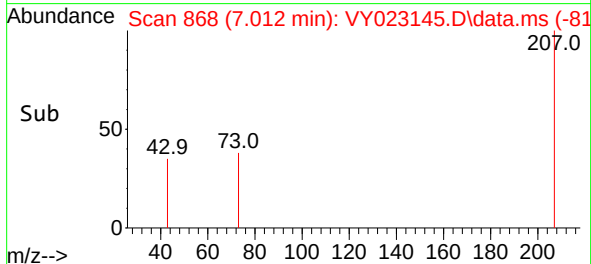
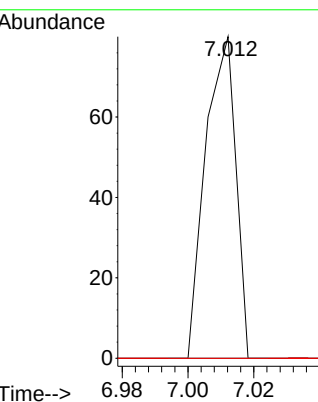
MSVOA_Y

ClientSampleId :

DRILL CUTTING 1-5 COMP



Tgt Ion:	43	Resp:	51
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.9	17.9#
70	0.0	8.8	13.2#



#38

Carbon Tetrachloride

Concen: 10.178 ug/l

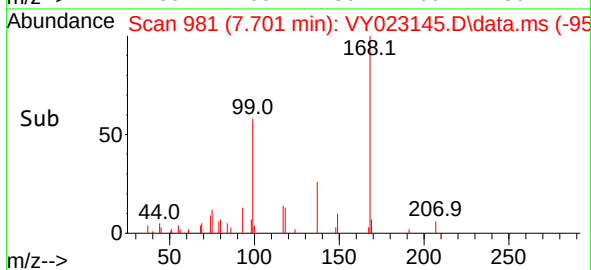
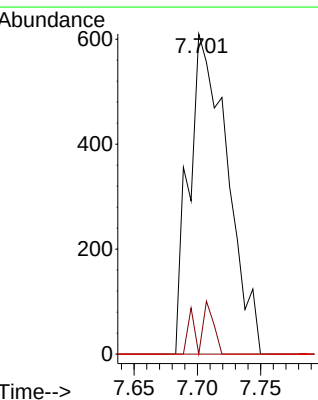
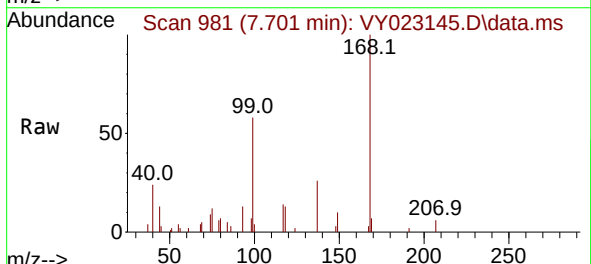
RT: 7.701 min Scan# 981

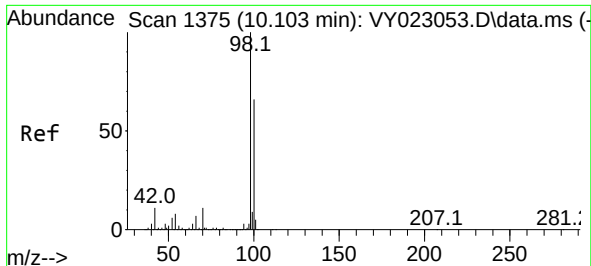
Delta R.T. -0.116 min

Lab File: VY023145.D

Acq: 19 Aug 2025 12:54

Tgt Ion:	117	Resp:	1287
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.6	113.4#
121	0.0	25.8	38.8#

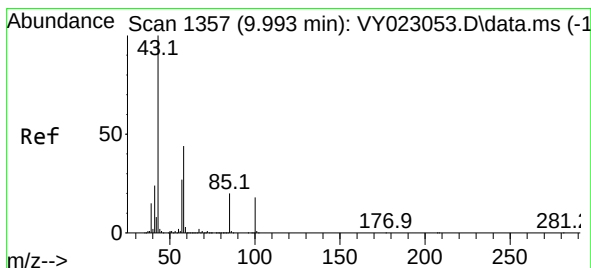
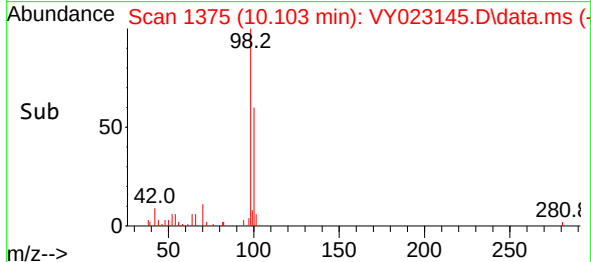
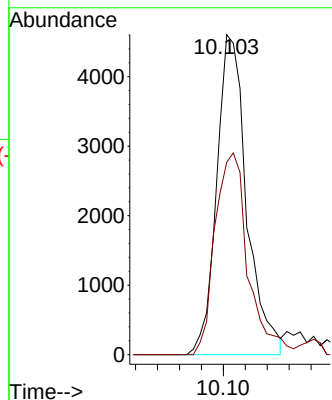
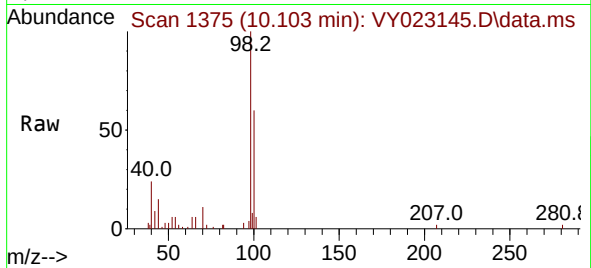




#50
Toluene-d8
Concen: 28.614 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

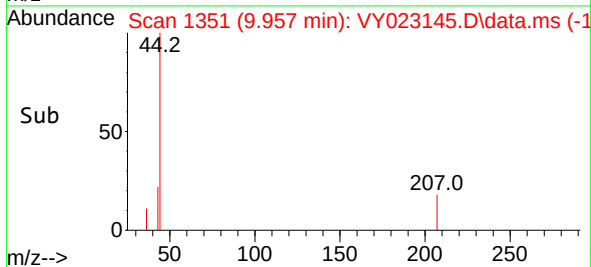
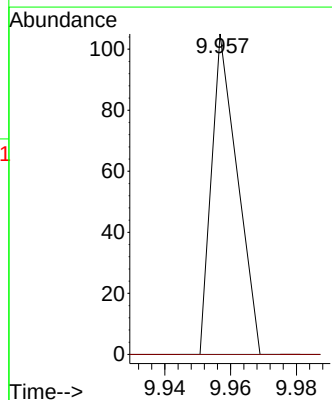
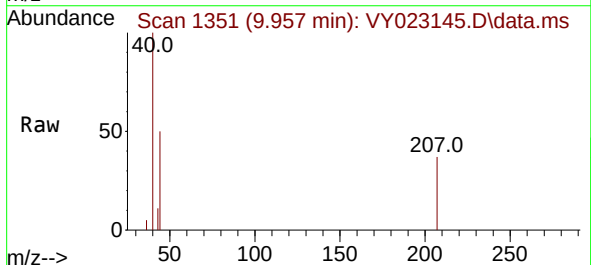
Instrument :
MSVOA_Y
ClientSampleId :
DRILL CUTTING 1-5 COMP

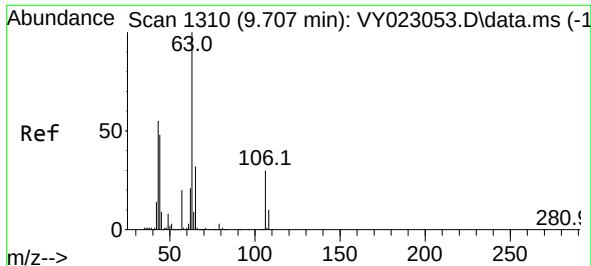
Tgt Ion: 98 Resp: 8757
Ion Ratio Lower Upper
98 100
100 69.1 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 1.118 ug/l
RT: 9.957 min Scan# 1351
Delta R.T. -0.037 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 33.5 50.3#

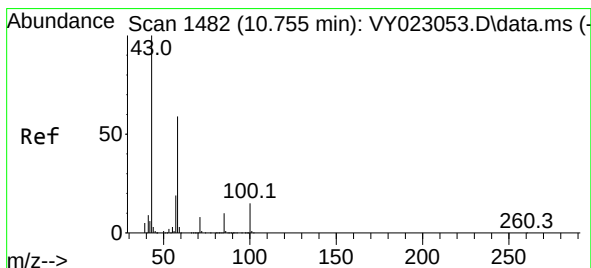
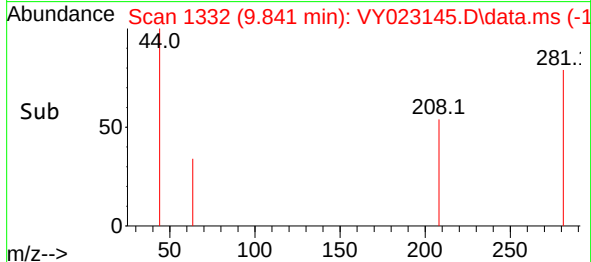
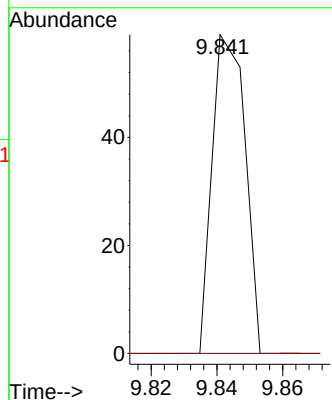
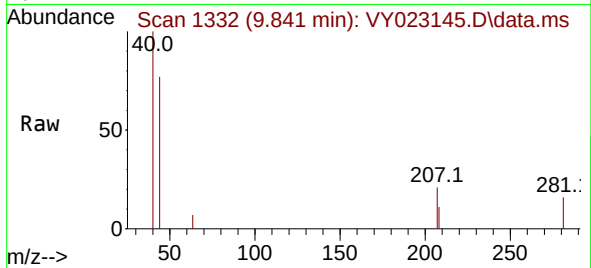




#58
2-Chloroethyl Vinyl ether
Concen: 1.071 ug/l
RT: 9.841 min Scan# 11
Delta R.T. 0.134 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

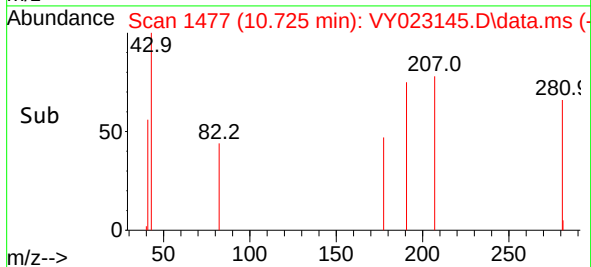
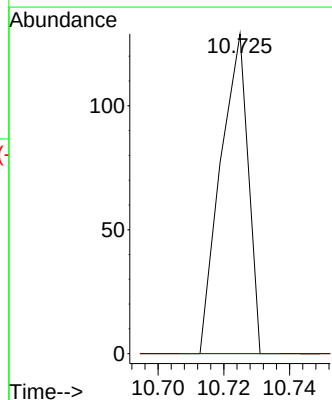
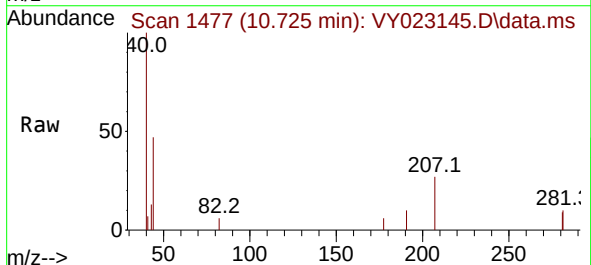
Instrument :
MSVOA_Y
ClientSampleId :
DRILL CUTTING 1-5 COMP

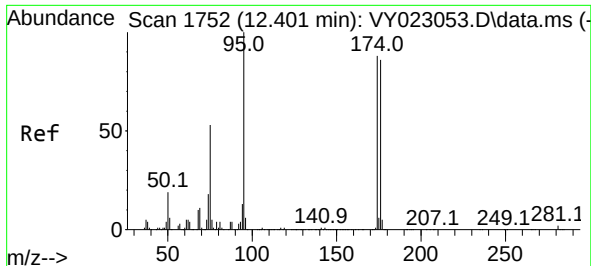
Tgt Ion: 63 Resp: 41
Ion Ratio Lower Upper
63 100
106 0.0 23.2 34.8#



#59
2-Hexanone
Concen: 2.160 ug/l
RT: 10.725 min Scan# 1477
Delta R.T. -0.030 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 43 Resp: 75
Ion Ratio Lower Upper
43 100
58 0.0 29.5 88.5#

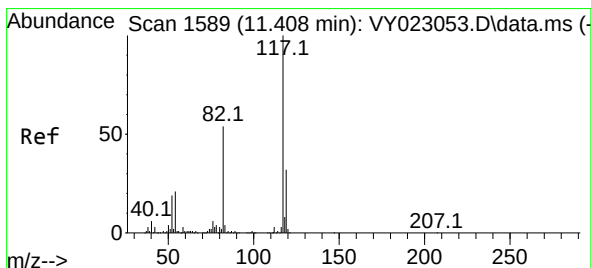
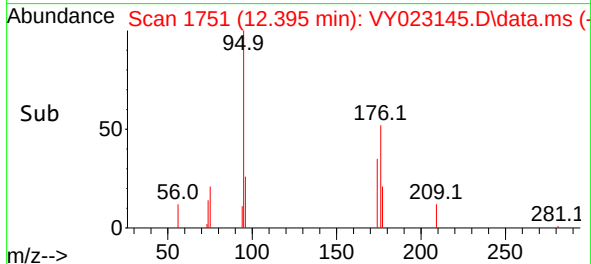
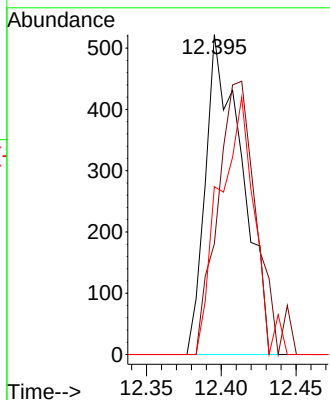
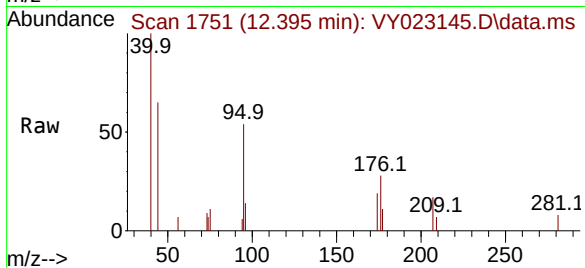




#62
4-Bromofluorobenzene
Concen: 8.931 ug/l
RT: 12.395 min Scan# 1751
Delta R.T. -0.006 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

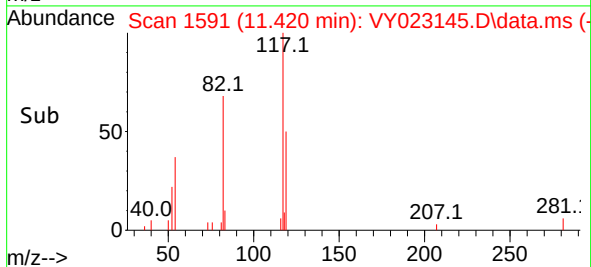
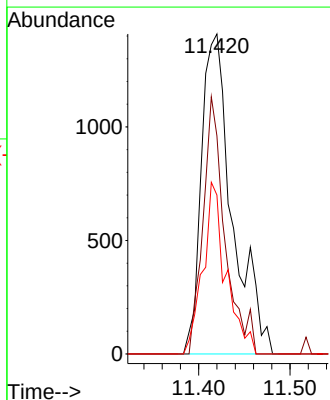
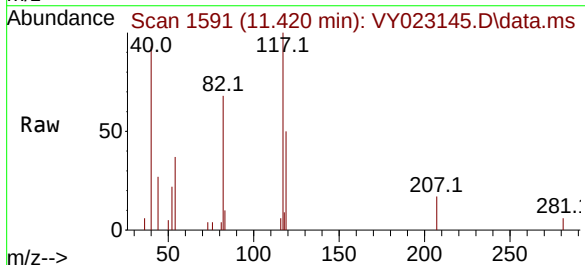
Instrument :
MSVOA_Y
ClientSampleId :
DRILL CUTTING 1-5 COMP

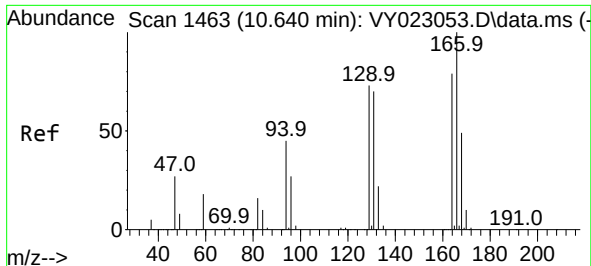
Tgt Ion: 95 Resp: 879
Ion Ratio Lower Upper
95 100
174 92.0 0.0 171.6
176 78.2 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.012 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 117 Resp: 3304
Ion Ratio Lower Upper
117 100
82 68.1 43.4 65.0#
119 49.7 25.6 38.4#

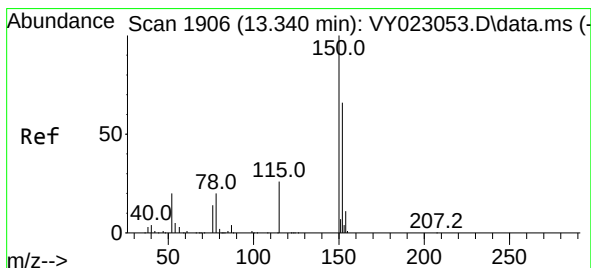
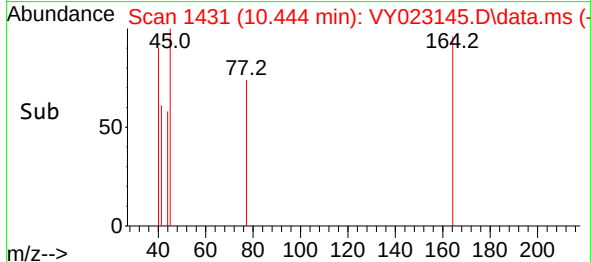
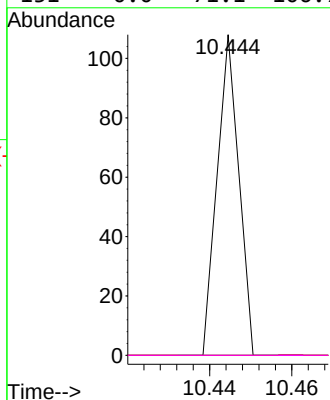
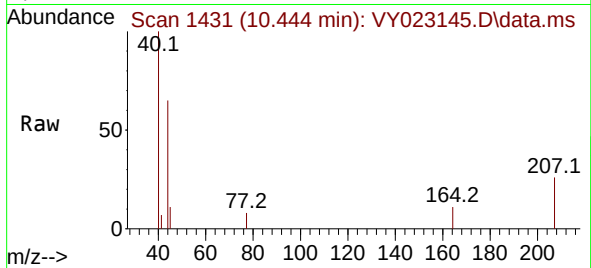




#64
Tetrachloroethene
Concen: 1.356 ug/l
RT: 10.444 min Scan# 1463
Delta R.T. -0.195 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

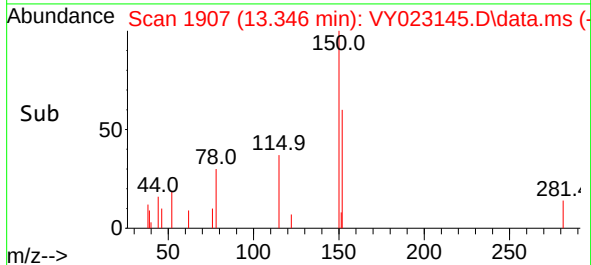
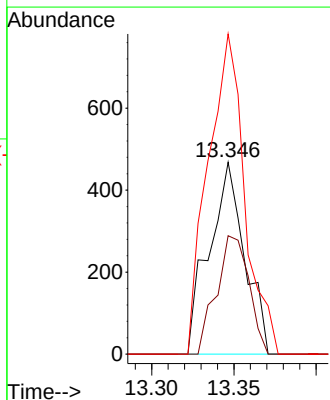
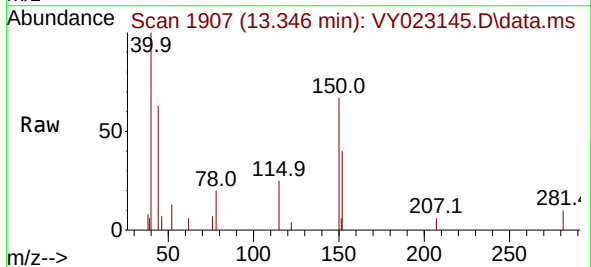
Instrument :
MSVOA_Y
ClientSampleId :
DRILL CUTTING 1-5 COMP

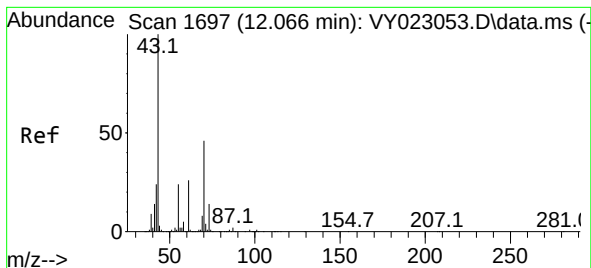
Tgt Ion:164	Resp:	40
Ion Ratio	Lower	Upper
164	100	
166	0.0	101.1 151.7#
129	0.0	74.0 111.0#
131	0.0	71.1 106.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion:152	Resp:	706
Ion Ratio	Lower	Upper
152	100	
115	56.2	28.2 84.6
150	171.7	0.0 348.0





#74

N-amy1 acetate

Concen: 3.312 ug/l

RT: 12.084 min Scan# 1

Delta R.T. 0.018 min

Lab File: VY023145.D

Acq: 19 Aug 2025 12:54

Instrument :

MSVOA_Y

ClientSampleId :

DRILL CUTTING 1-5 COMP

Tgt Ion: 43 Resp: 35

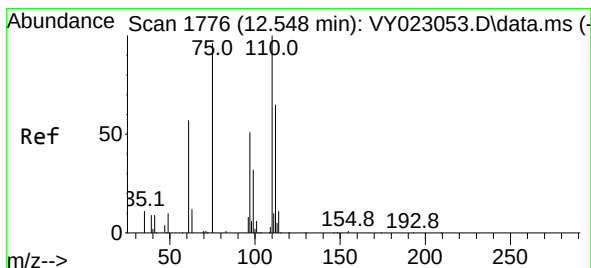
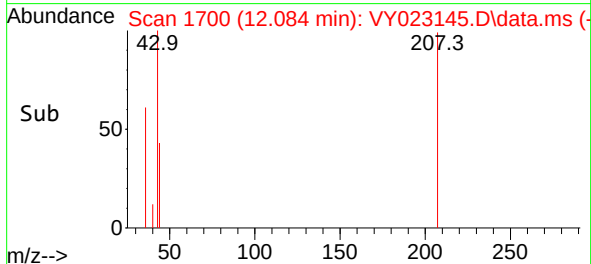
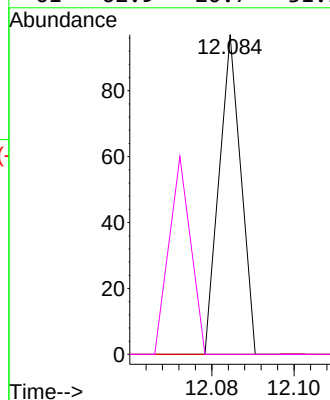
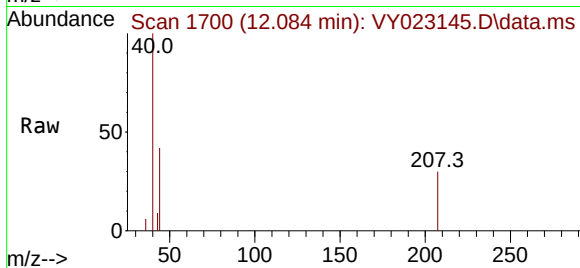
Ion Ratio Lower Upper

43 100

70 0.0 37.5 56.3#

55 0.0 20.7 31.1#

61 62.9 20.7 31.1#



#76

1,2,3-Trichloropropane

Concen: 66.925 ug/l

RT: 12.414 min Scan# 1754

Delta R.T. -0.134 min

Lab File: VY023145.D

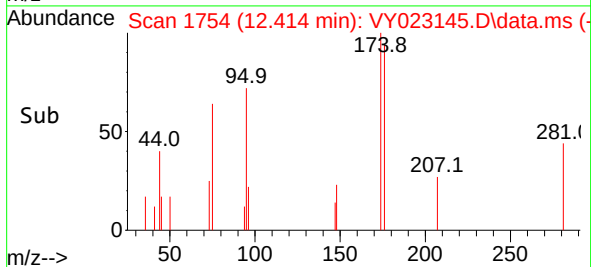
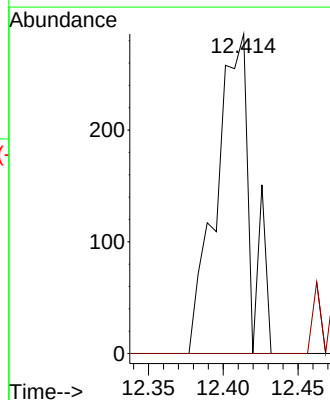
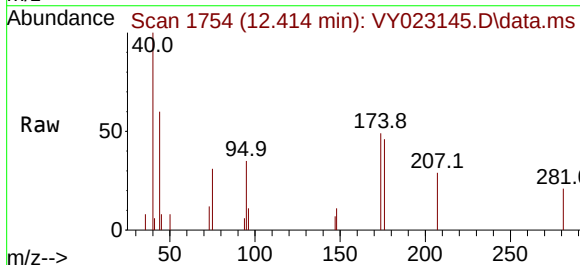
Acq: 19 Aug 2025 12:54

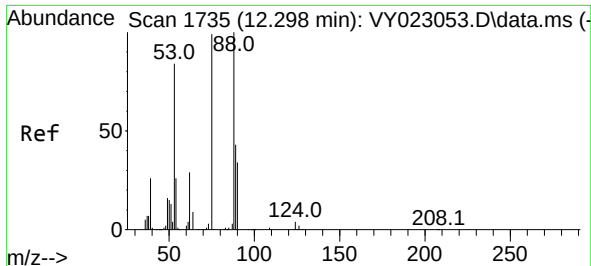
Tgt Ion: 75 Resp: 456

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

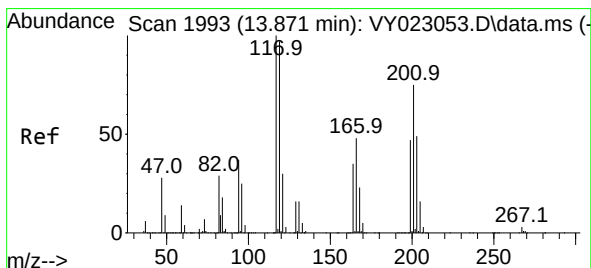
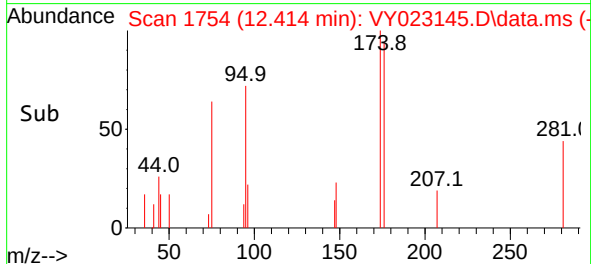
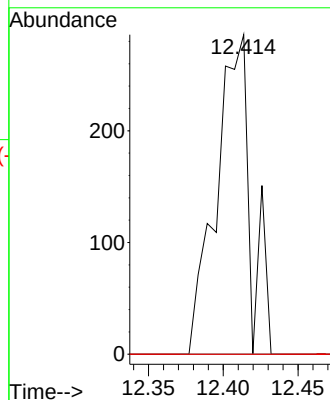
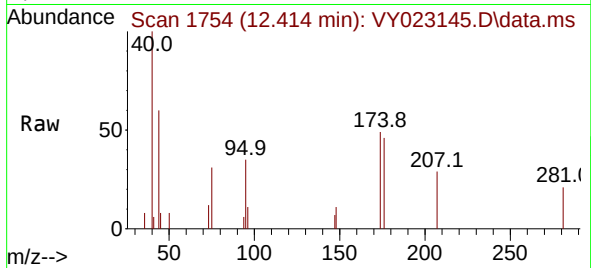




#81
trans-1,4-Dichloro-2-butene
Concen: 162.003 ug/l
RT: 12.414 min Scan# 11
Delta R.T. 0.116 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

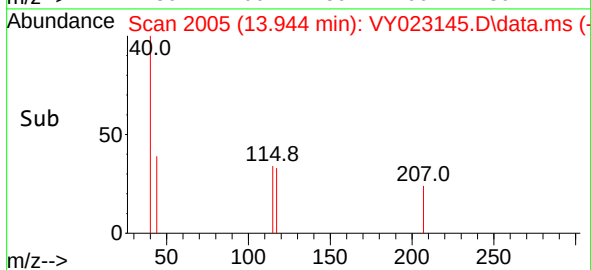
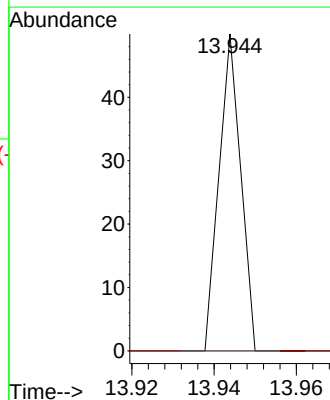
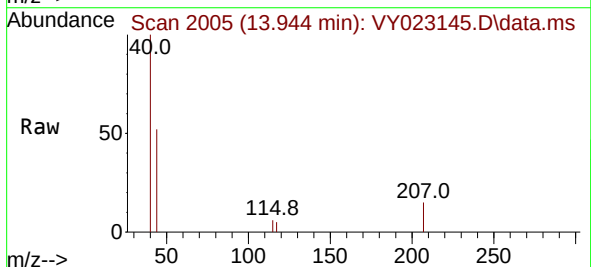
Instrument :
MSVOA_Y
ClientSampleId :
DRILL CUTTING 1-5 COMP

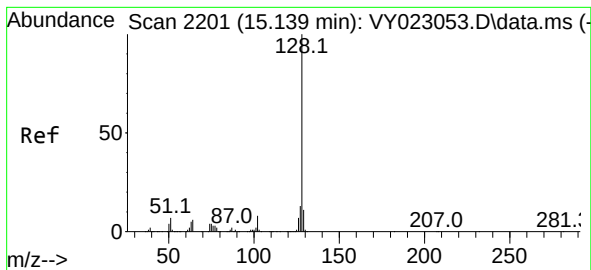
Tgt Ion: 75 Resp: 456
Ion Ratio Lower Upper
75 100
53 0.0 70.8 106.2#
89 0.0 38.1 57.1#



#90
Hexachloroethane
Concen: 1.983 ug/l
RT: 13.944 min Scan# 2005
Delta R.T. 0.073 min
Lab File: VY023145.D
Acq: 19 Aug 2025 12:54

Tgt Ion: 117 Resp: 18
Ion Ratio Lower Upper
117 100
201 0.0 38.4 115.1#





#95

Naphthalene

Concen: 2.749 ug/l

RT: 15.151 min Scan# 21

Delta R.T. 0.012 min

Lab File: VY023145.D

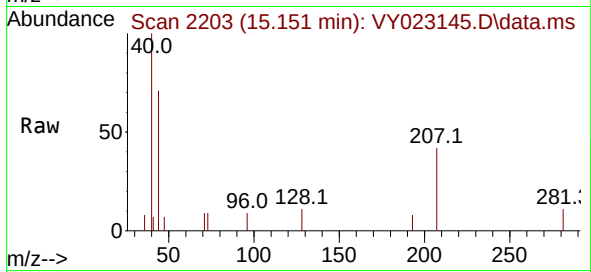
Acq: 19 Aug 2025 12:54

Instrument :

MSVOA_Y

ClientSampleId :

DRILL CUTTING 1-5 COMP



Tgt Ion:128 Resp: 57

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 9.0 13.4#

