

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\
 Data File : VD064953.D
 Acq On : 24 Jan 2020 20:02
 Operator : VA/SY
 Sample : L1242-09
 Misc : 5.05G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 25 02:41:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	424017	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	690748	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	622308	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	247970	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	215614	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	
35) Dibromofluoromethane	7.92	113	220605	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
50) Toluene-d8	10.34	98	815435	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
62) 4-Bromofluorobenzene	12.64	95	254234	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	

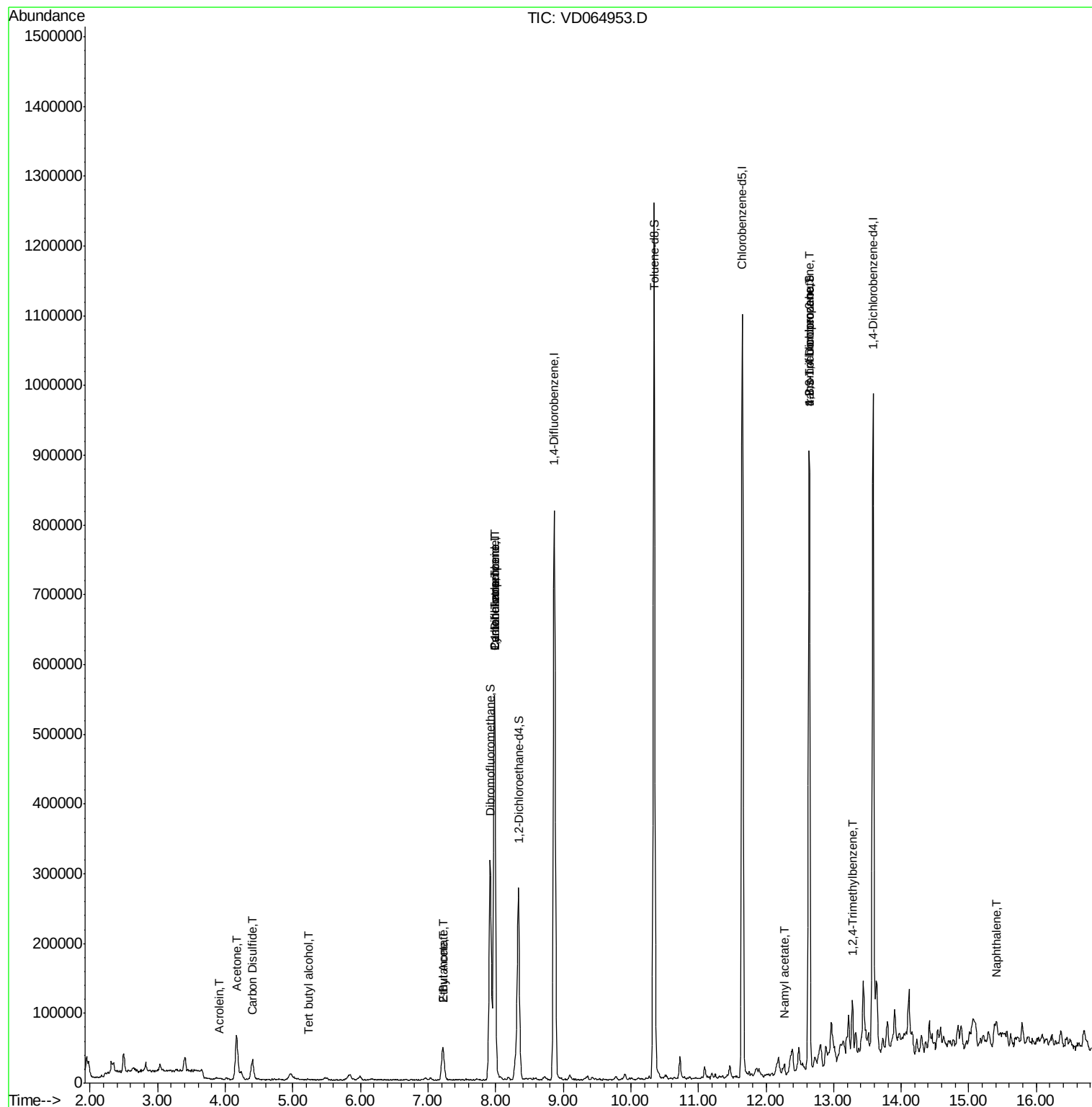
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.24	59	740	3.292	ug/l #	84
13) Acrolein	3.91	56	857	3.042	ug/l	99
16) Acetone	4.17	43	109924	111.232	ug/l	96
17) Carbon Disulfide	4.40	76	57596	4.741	ug/l #	94
20) Methylene Chloride	4.96	84	5715	Below Cal	#	86
25) 2-Butanone	7.22	43	38572	35.103	ug/l	99
31) Cyclohexane	7.98	56	10797	1.524	ug/l #	36
36) 1,1-Dichloropropene	7.98	75	32700	4.909	ug/l #	49
37) Ethyl Acetate	7.22	43	38572	14.020	ug/l #	75
38) Carbon Tetrachloride	7.98	117	42924	6.097	ug/l #	18
74) N-amyl acetate	12.27	43	4593	1.211	ug/l #	67
76) 1,2,3-Trichloropropane	12.64	75	138496	67.291	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	138496	143.681	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.28	105	45678	3.246	ug/l	100
95) Naphthalene	15.41	128	30276	4.014	ug/l #	94

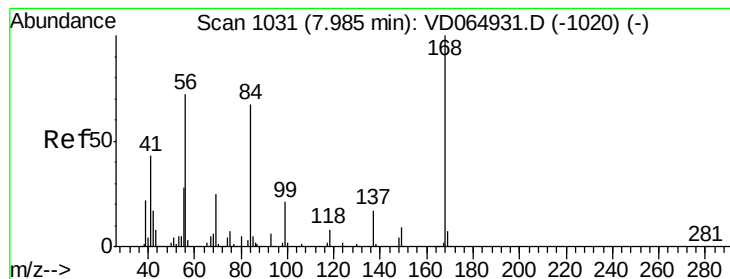
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064953.D

Acq: 24 Jan 2020 20:02

Instrument :

MSVOA_D

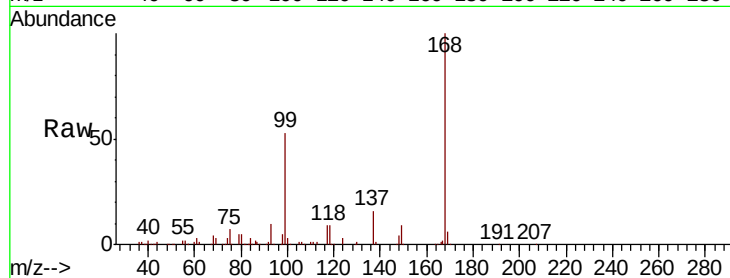
ClientSampleId :

Tot Ion:168 Resp: 424017

Ion Ratio Lower Upper

168 100

99 52.8 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

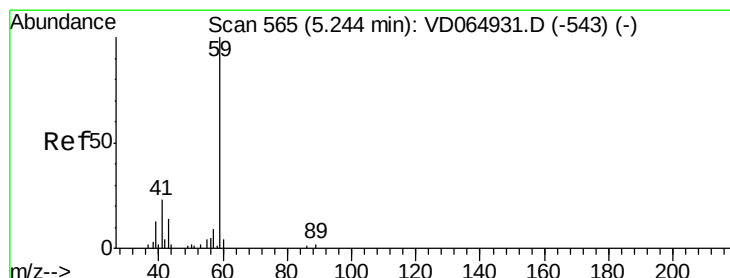
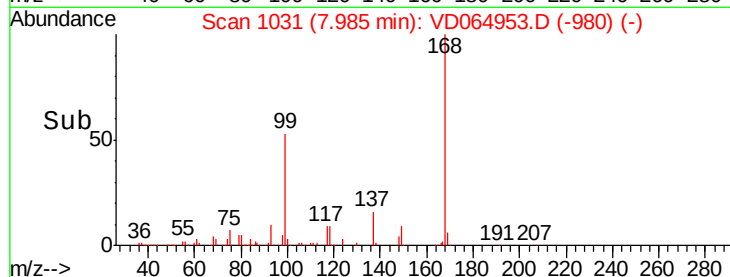
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.292 ug/l

RT: 5.24 min Scan# 564

Delta R.T. -0.01 min

Lab File: VD064953.D

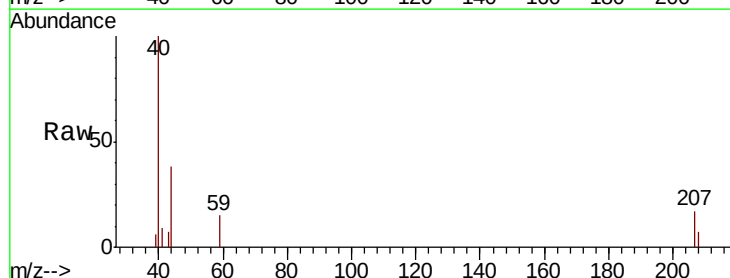
Acq: 24 Jan 2020 20:02

Tgt Ion: 59 Resp: 740

Ion Ratio Lower Upper

59 100

57 15.4 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

600

500

400

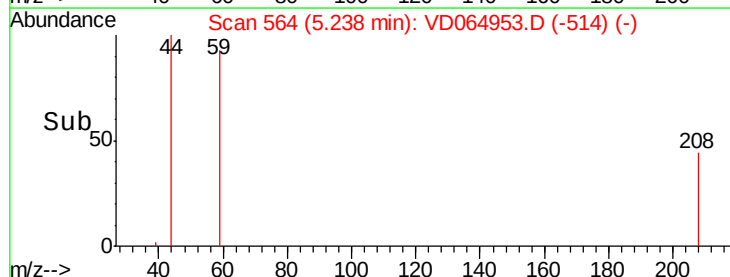
300

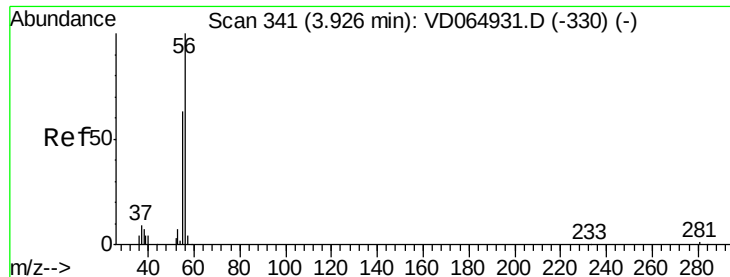
200

100

0

Time-->





#13

Acrolein

Concen: 3.042 ug/l

RT: 3.91 min Scan# 339

Delta R.T. -0.01 min

Lab File: VD064953.D

Acq: 24 Jan 2020 20:02

Instrument :

MSVOA_D

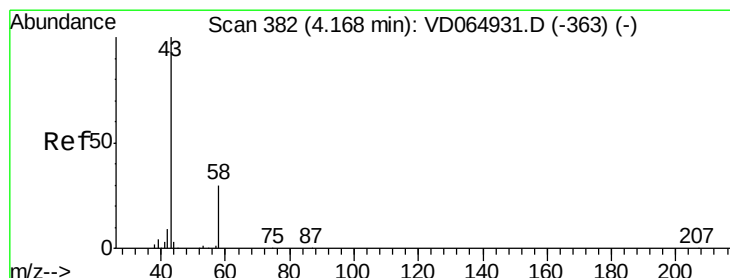
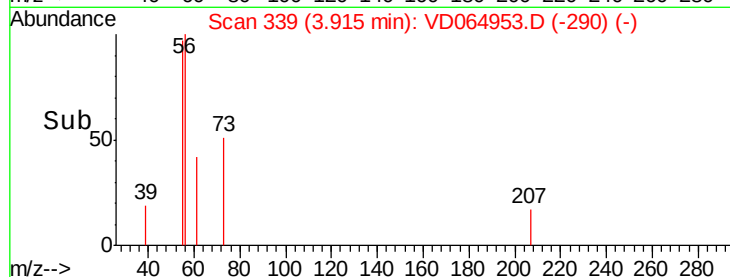
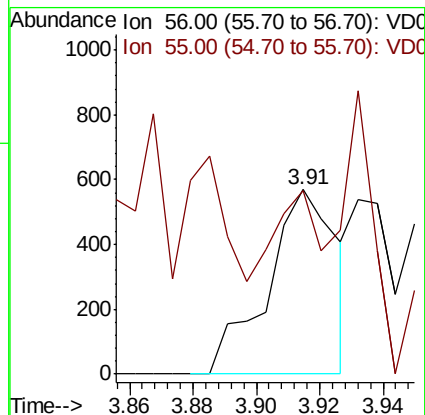
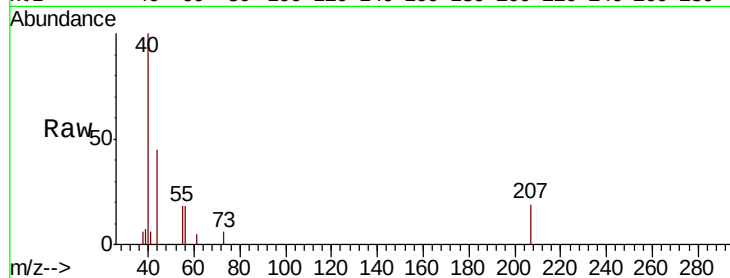
ClientSampleId :

Tot Ion: 56 Resp: 857

Ion Ratio Lower Upper

56 100

55 75.1 59.7 89.5



#16

Acetone

Concen: 111.232 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064953.D

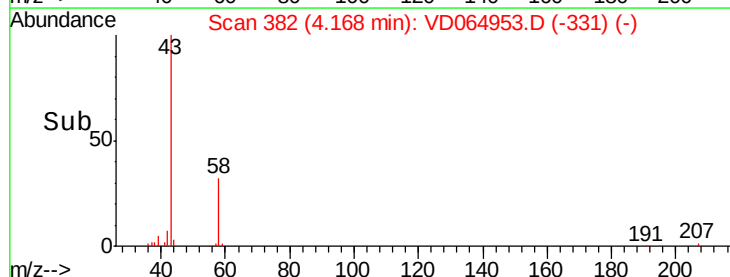
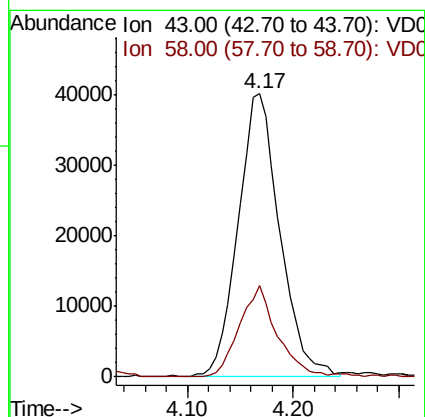
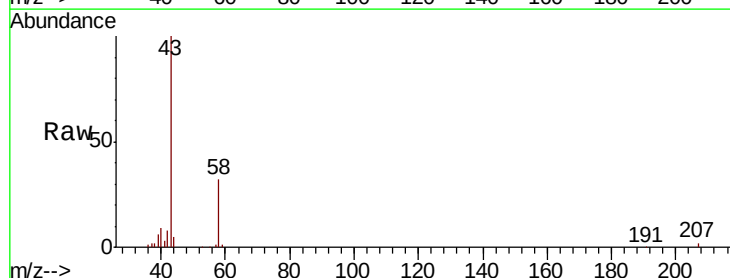
Acq: 24 Jan 2020 20:02

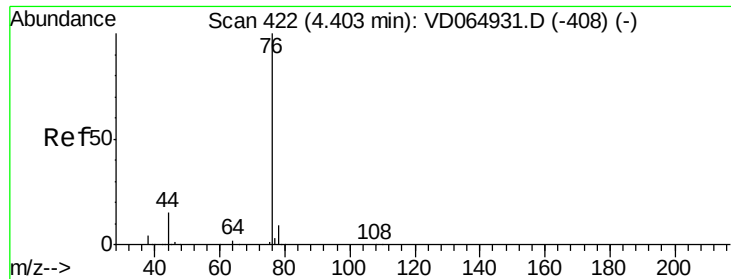
Tgt Ion: 43 Resp: 109924

Ion Ratio Lower Upper

43 100

58 32.2 23.8 35.8

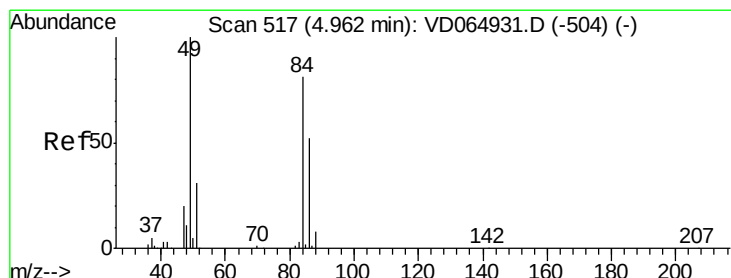
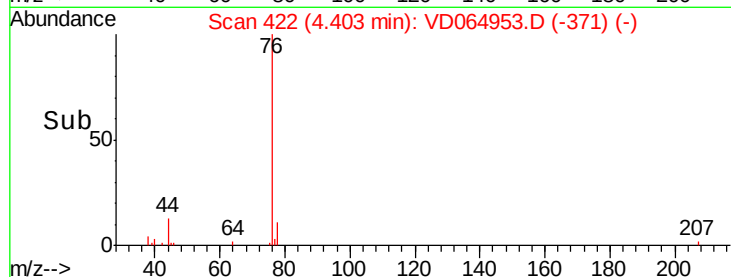
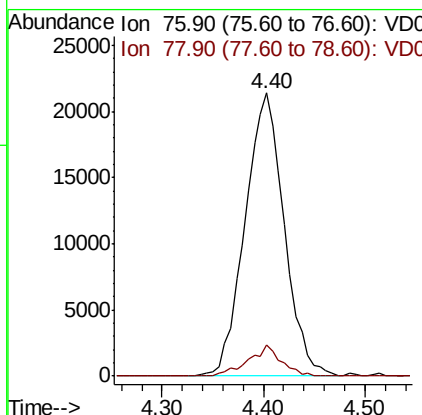
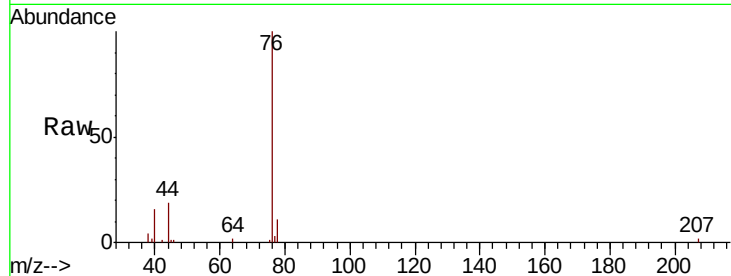




#17
Carbon Disulfide
Concen: 4.741 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.00 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

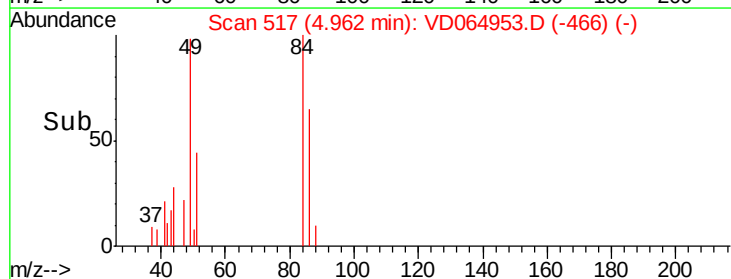
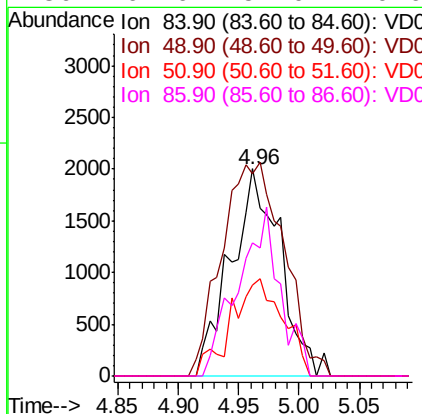
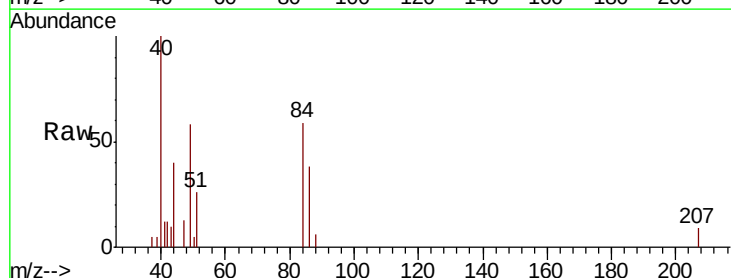
Instrument :
MSVOA_D
ClientSampleId :

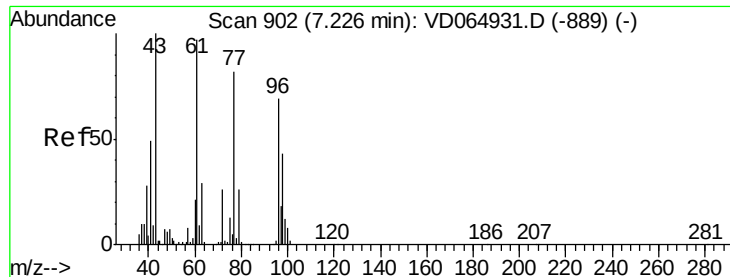
Tot Ion: 76 Resp: 57596
Ion Ratio Lower Upper
76 100
78 11.0 7.1 10.7#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

Tgt Ion: 84 Resp: 5715
Ion Ratio Lower Upper
84 100
49 97.6 98.4 147.6#
51 43.7 30.8 46.2
86 64.6 51.0 76.6





#25

2-Butanone

Concen: 35.103 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD064953.D

Acq: 24 Jan 2020 20:02

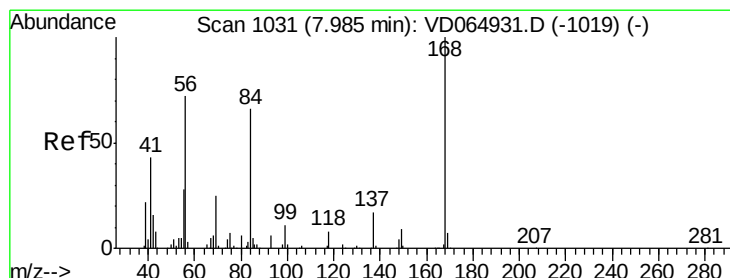
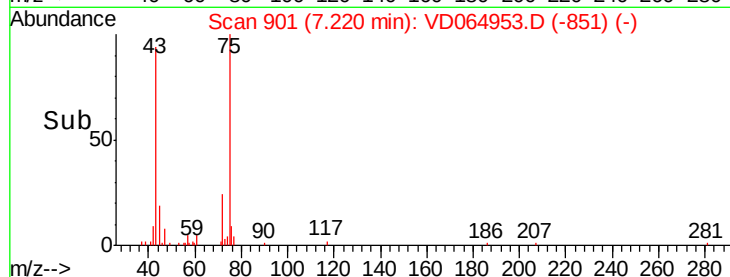
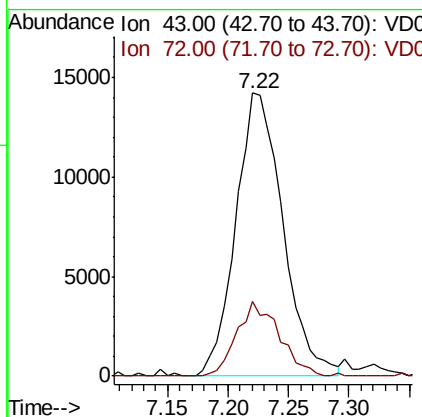
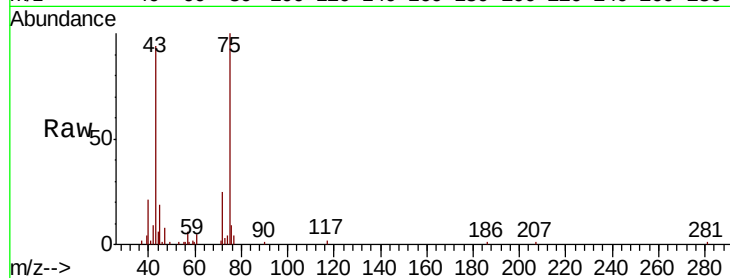
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 38572

Ion Ratio Lower Upper

43 100

72 26.5 20.6 31.0



#31

Cyclohexane

Concen: 1.524 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064953.D

Acq: 24 Jan 2020 20:02

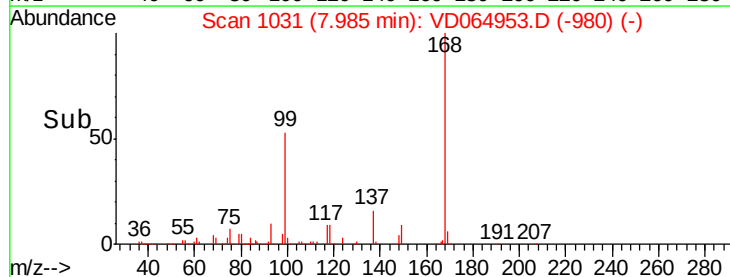
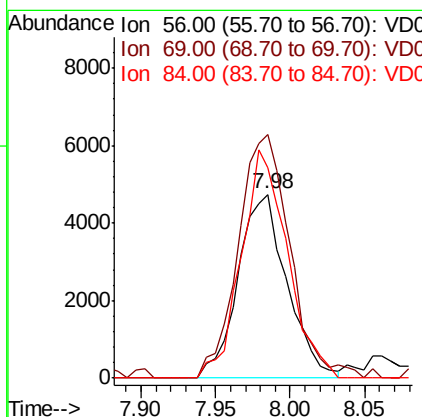
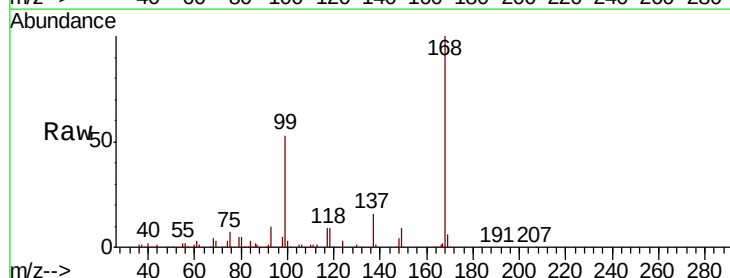
Tgt Ion: 56 Resp: 10797

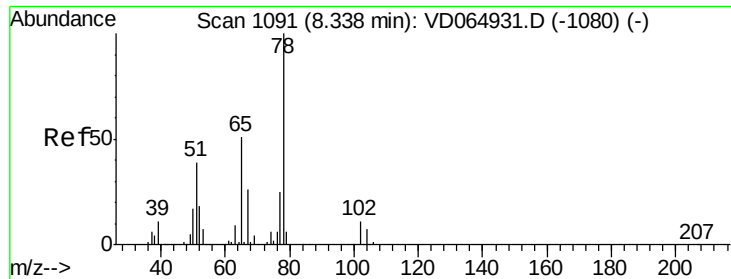
Ion Ratio Lower Upper

56 100

69 132.4 27.9 41.9#

84 114.3 72.8 109.2#

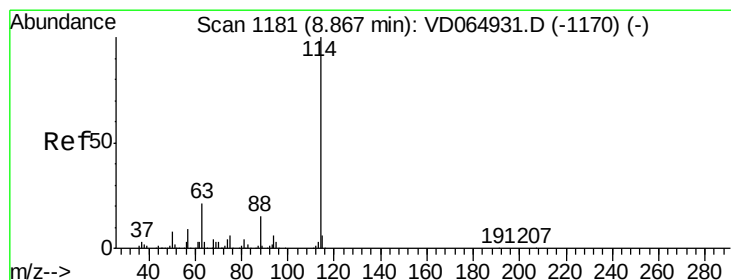
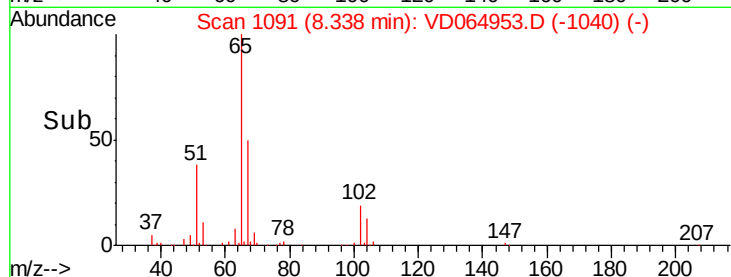
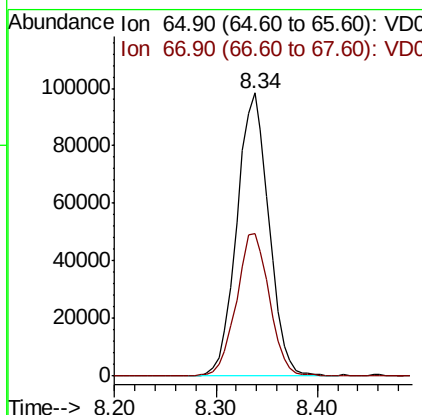
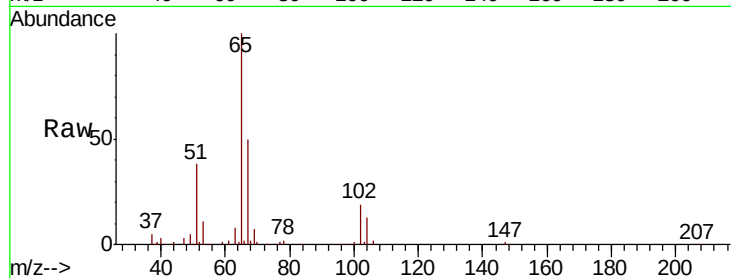




#33
 1,2-Dichloroethane-d4
 Concen: 53.012 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD064953.D
 Acq: 24 Jan 2020 20:02

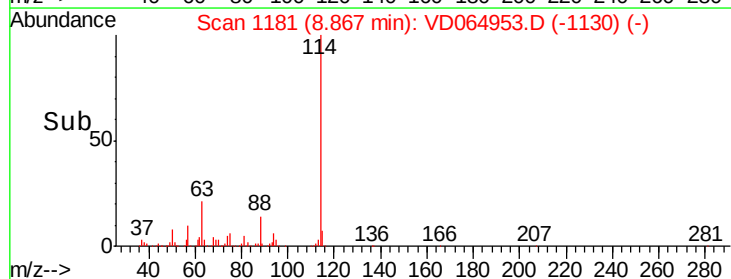
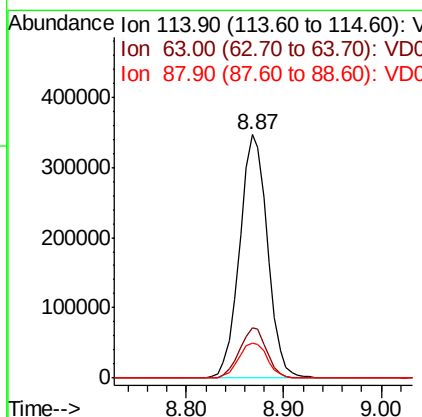
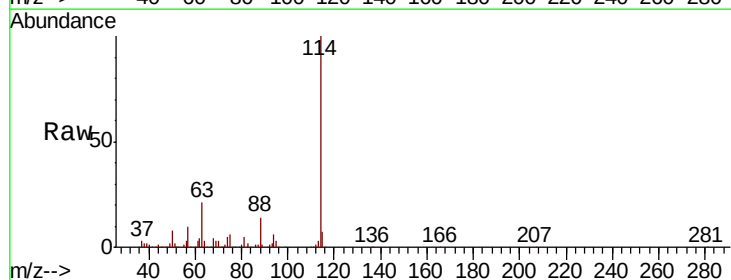
Instrument :
 MSVOA_D
 ClientSampled :

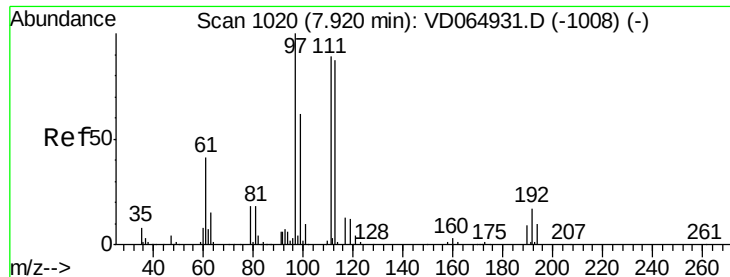
Tot Ion: 65 Resp: 215614
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064953.D
 Acq: 24 Jan 2020 20:02

Tgt Ion: 114 Resp: 690748
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.0
 88 14.4 0.0 29.4

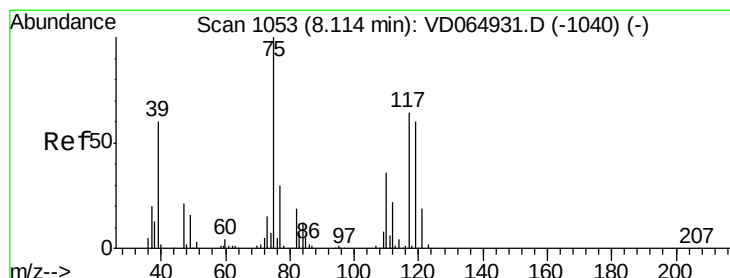
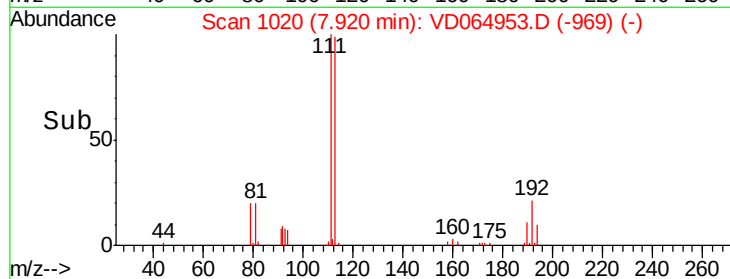
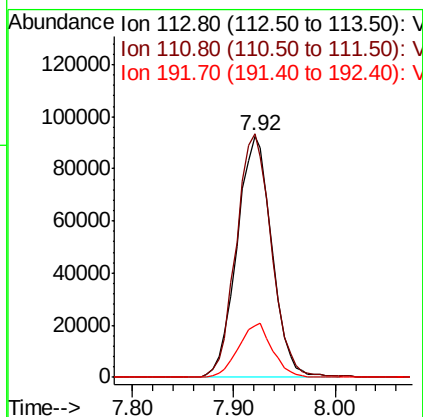
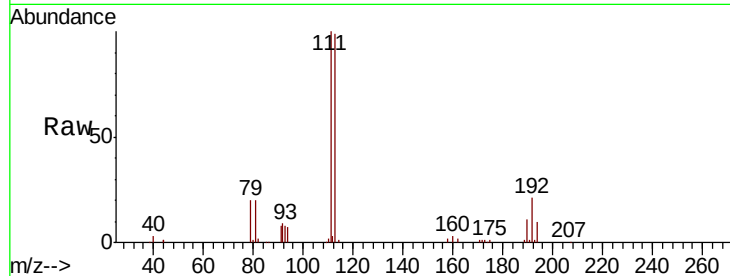




#35
Dibromofluoromethane
Concen: 50.822 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

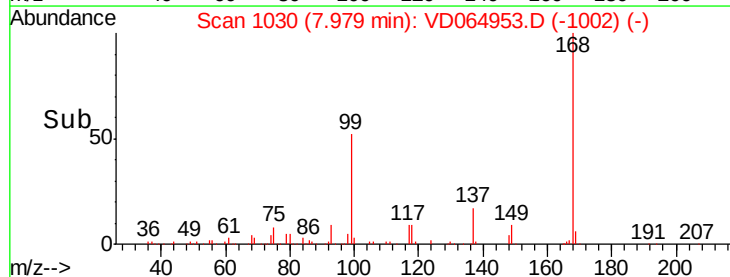
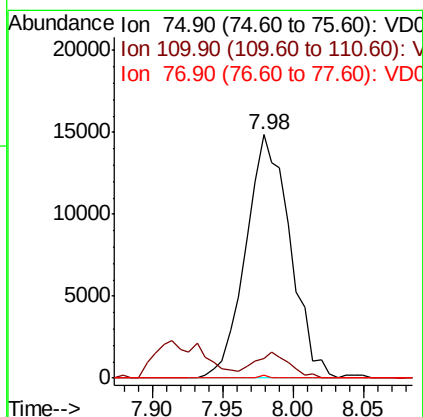
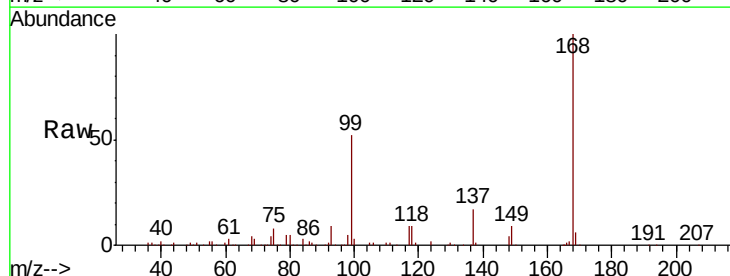
Instrument :
MSVOA_D
ClientSampleId :

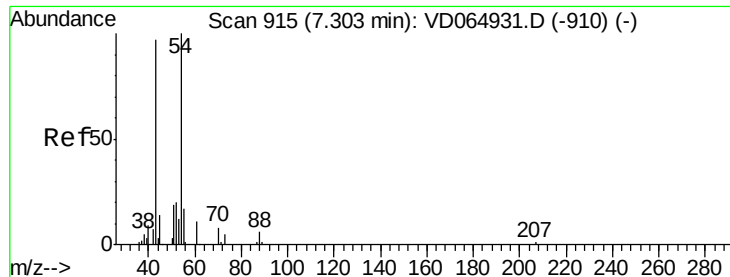
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.4	123.6
192	21.8	16.9	25.3



#36
1,1-Dichloropropene
Concen: 4.909 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.14 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.3	52.0#
77	0.0	24.7	37.1#

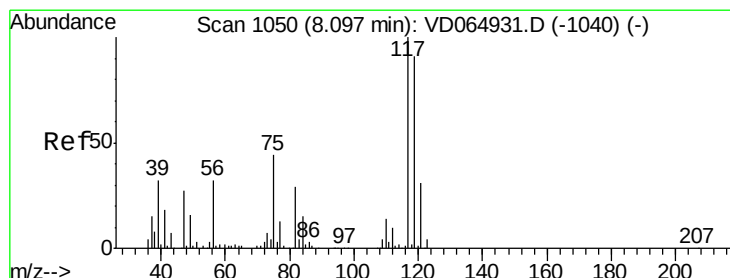
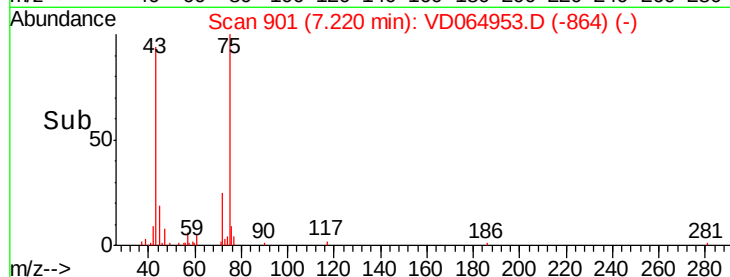
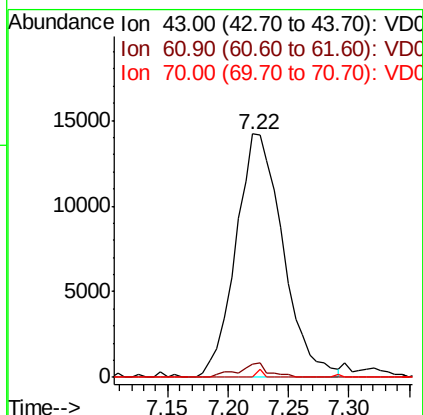
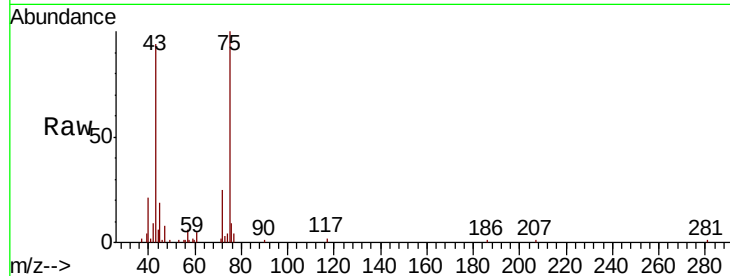




#37
Ethyl Acetate
Concen: 14.020 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.08 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

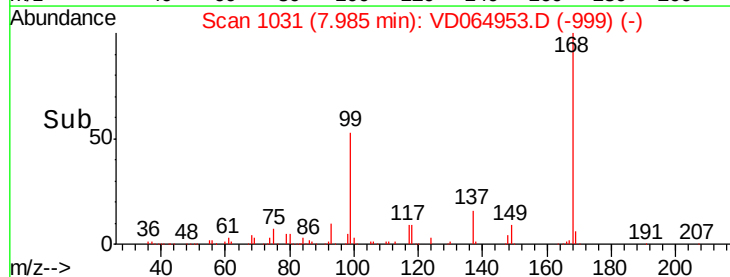
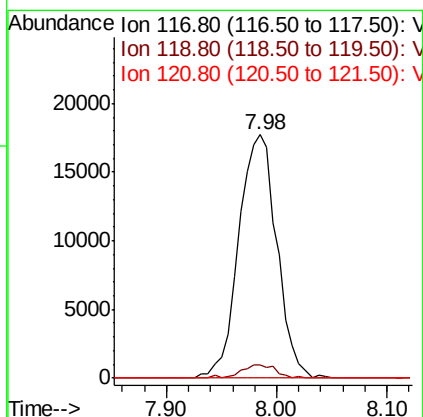
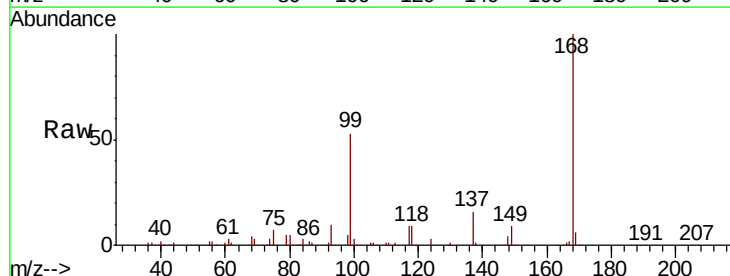
Instrument :
MSVOA_D
ClientSampleId :

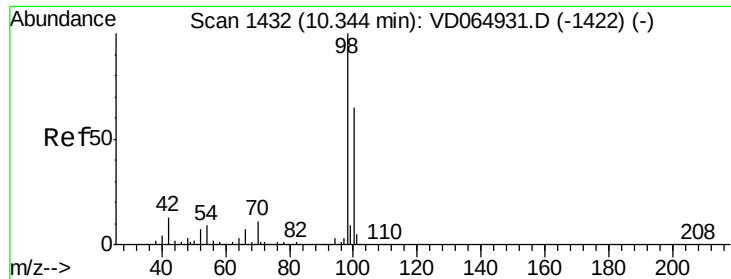
Tot Ion: 43 Resp: 38572
Ion Ratio Lower Upper
43 100
61 3.7 11.0 16.4#
70 0.4 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 6.097 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

Tgt Ion: 117 Resp: 42924
Ion Ratio Lower Upper
117 100
119 5.3 73.2 109.8#
121 0.0 24.4 36.6#

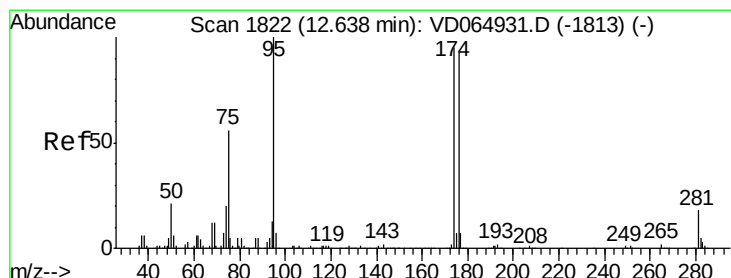
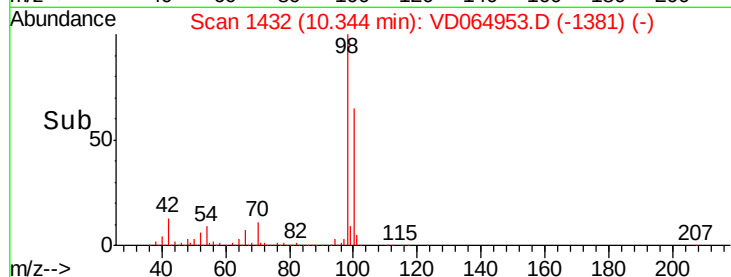
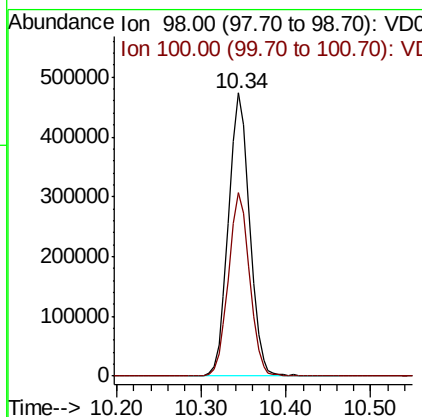
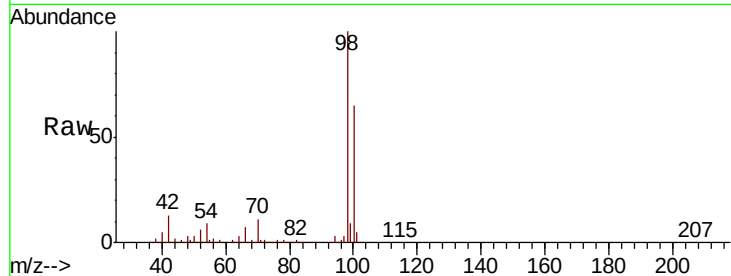




#50
Toluene-d8
Concen: 48.672 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

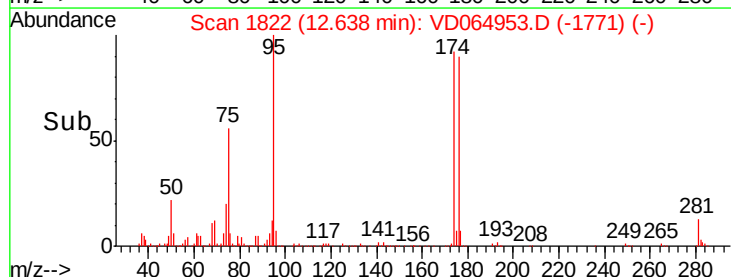
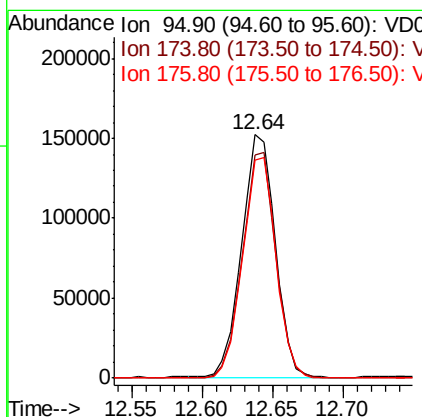
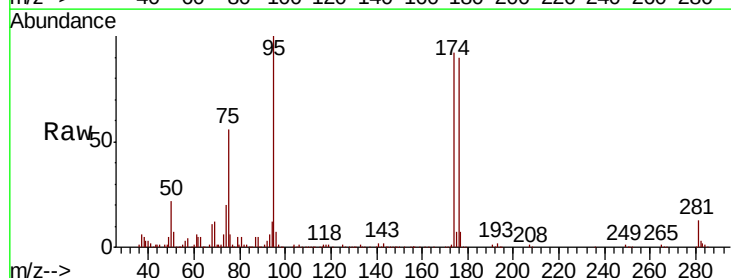
Instrument :
MSVOA_D
ClientSampleID :

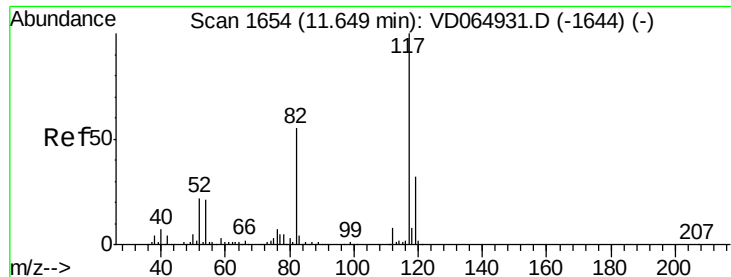
Tot Ion: 98 Resp: 815435
Ion Ratio Lower Upper
98 100
100 64.6 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 49.588 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

Tgt Ion: 95 Resp: 254234
Ion Ratio Lower Upper
95 100
174 92.2 0.0 186.8
176 90.3 0.0 183.4

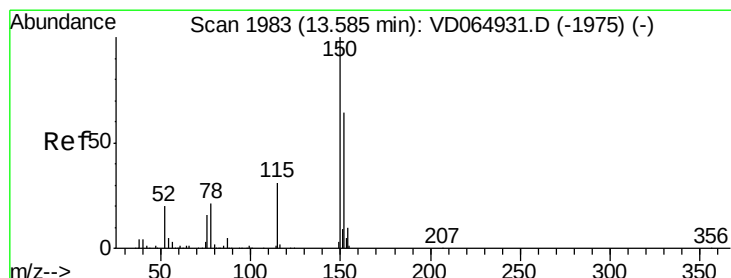
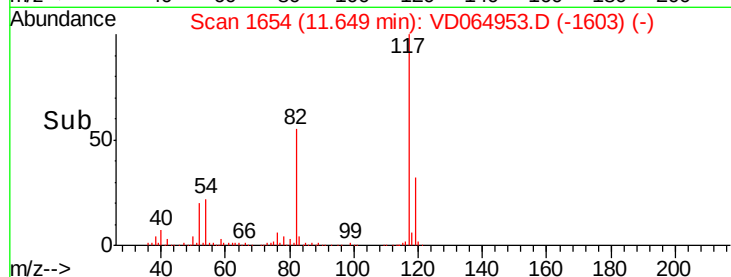
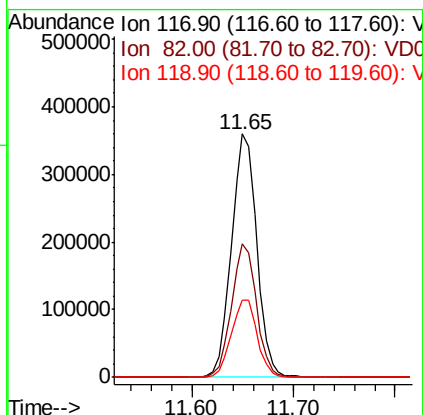
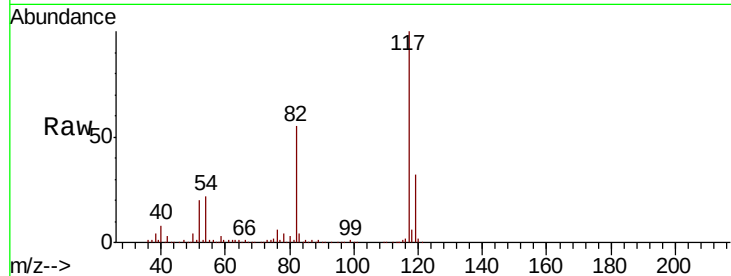




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

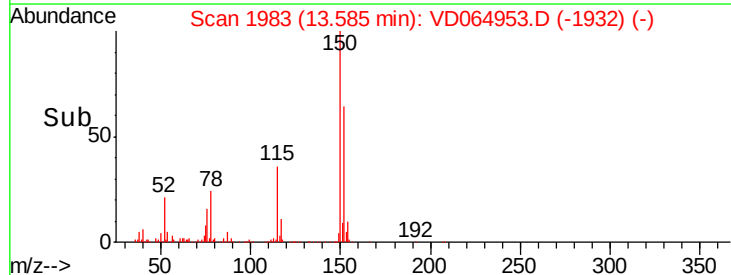
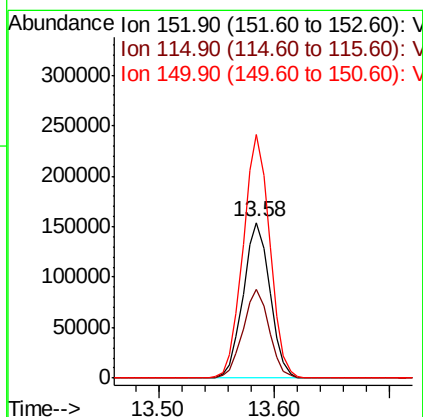
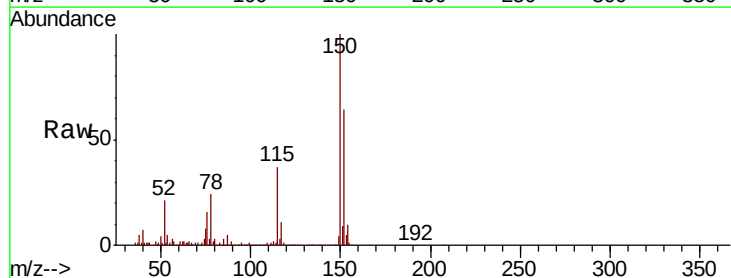
Instrument :
MSVOA_D
ClientSampleId :

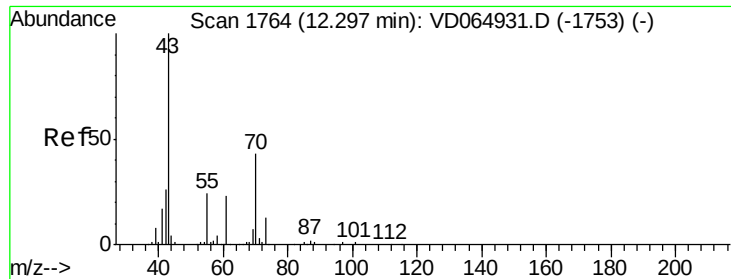
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.6	43.6	65.4
119	31.8	25.2	37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.1	84.4
150	155.9	0.0	350.4

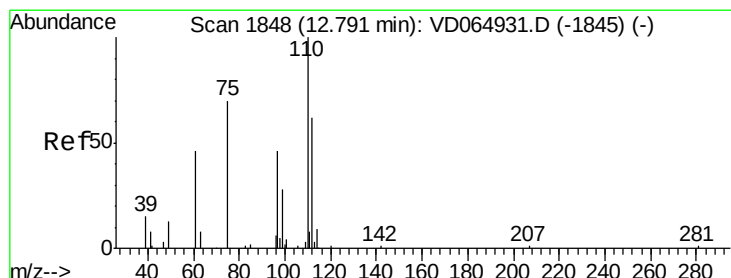
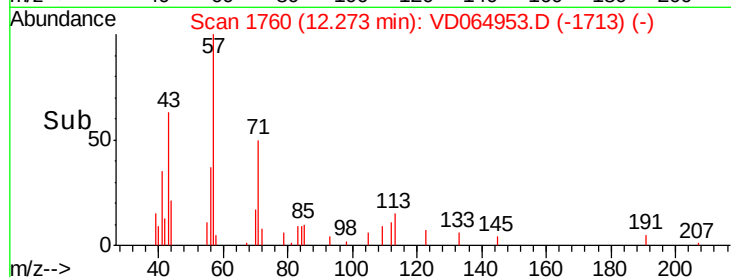
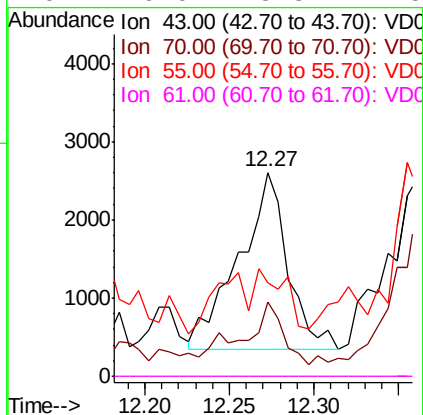
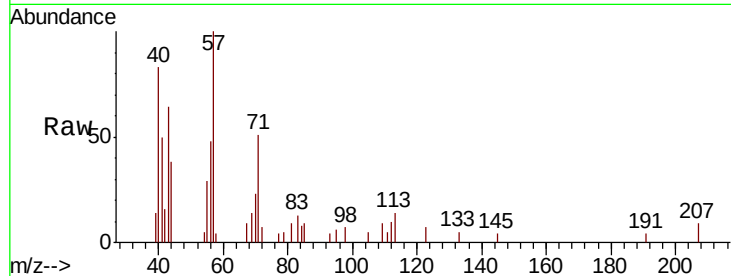




#74
N-amvl acetate
Concen: 1.211 ug/l
RT: 12.27 min Scan# 1760
Delta R.T. -0.02 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

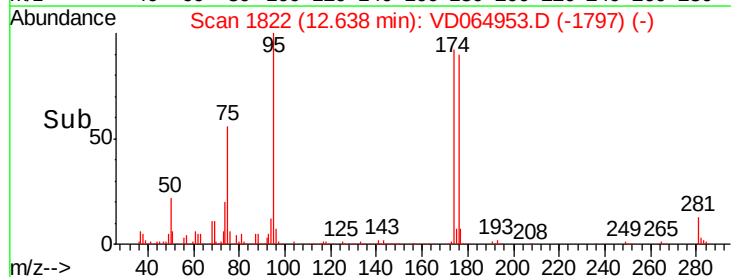
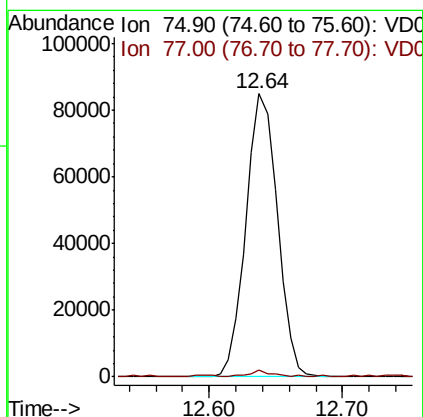
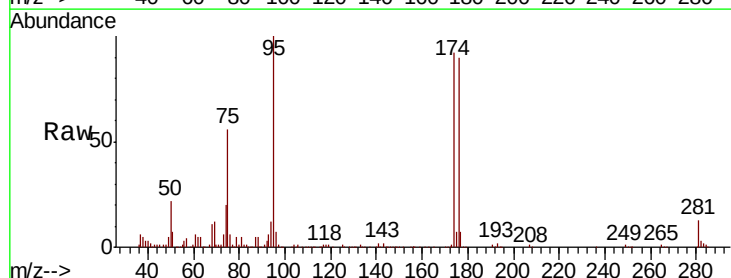
Instrument :
MSVOA_D
ClientSampleId :

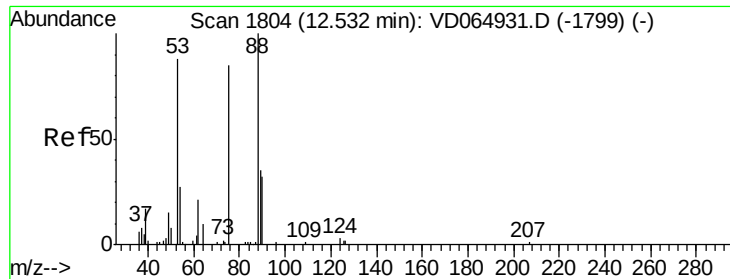
Tot Ion: 43 Resp: 4593
Ion Ratio Lower Upper
43 100
70 16.5 32.6 49.0#
55 20.2 19.9 29.9
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 67.291 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

Tgt Ion: 75 Resp: 138496
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 143.681 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064953.D

Acq: 24 Jan 2020 20:02

Instrument :

MSVOA_D

ClientSampled :

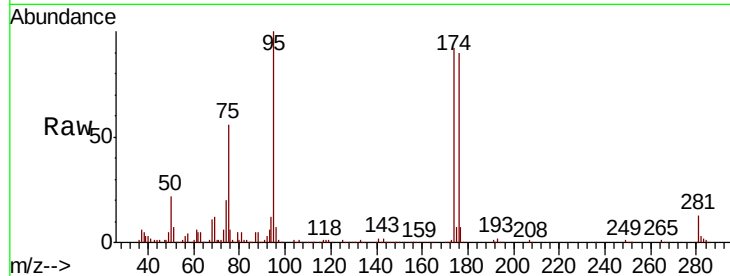
Tot Ion: 75 Resp: 138496

Ion Ratio Lower Upper

75 100

53 0.5 81.0 121.4#

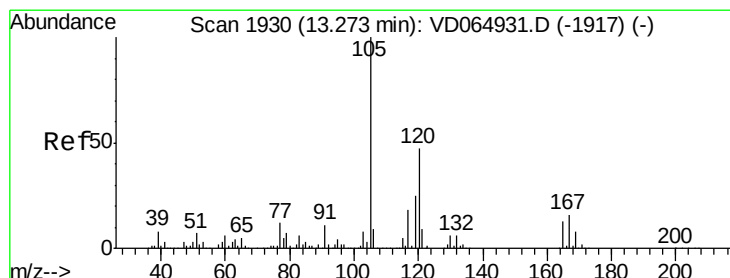
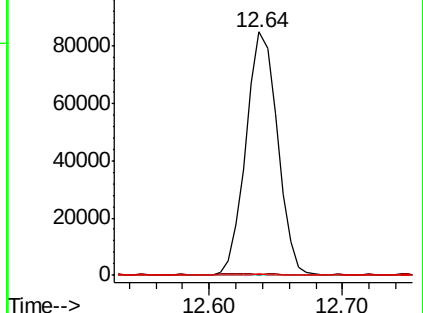
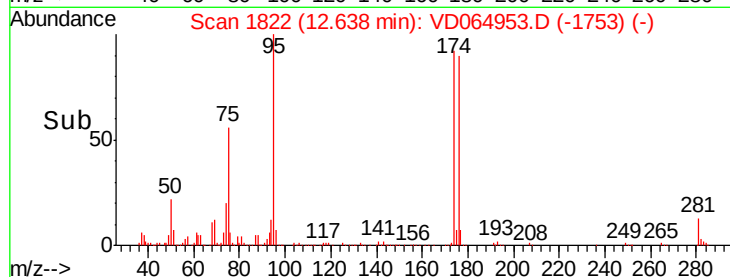
89 0.3 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#84

1,2,4-Trimethylbenzene

Concen: 3.246 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD064953.D

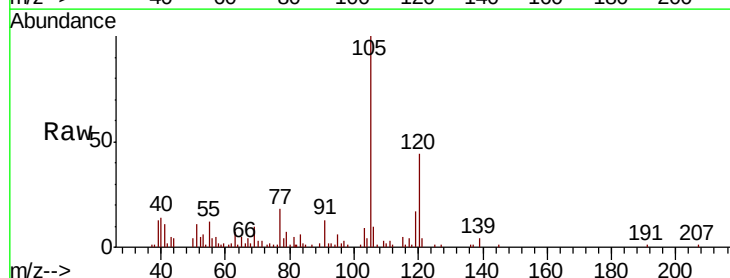
Acq: 24 Jan 2020 20:02

Tgt Ion:105 Resp: 45678

Ion Ratio Lower Upper

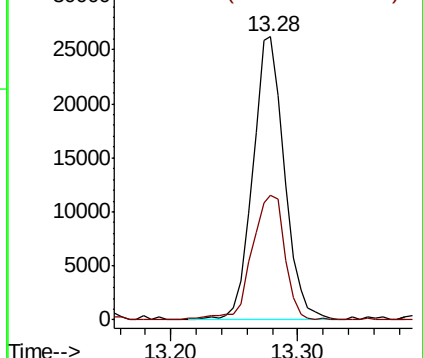
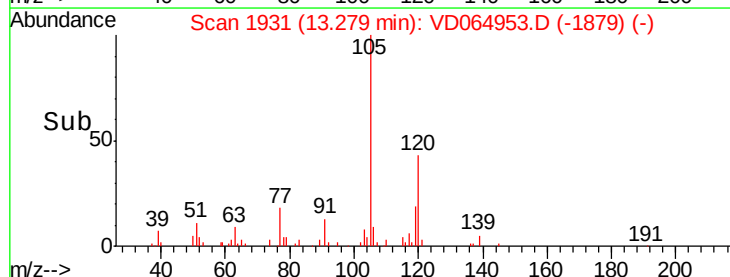
105 100

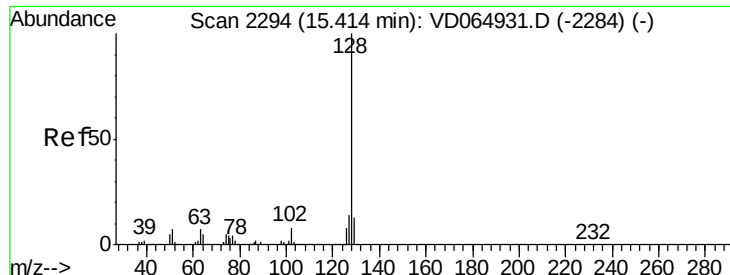
120 46.0 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 4.014 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD064953.D
Acq: 24 Jan 2020 20:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.6	15.8
129	12.9	9.3	13.9

