

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\
 Data File : VN056397.D
 Acq On : 20 Jun 2019 13:05
 Operator : JC/SP
 Sample : K3453-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-MUD

Quant Time: Jun 21 04:26:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	381935	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	649762	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	658014	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	210114	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	215387	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
35) Dibromofluoromethane	7.59	113	191665	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	10.09	98	815029	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
62) 4-Bromofluorobenzene	12.40	95	274182	52.15	ug/l	0.00
Spiked Amount			Recovery	=	104.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	535	0.215	ug/l #	73
8) Diethyl Ether	3.40	74	1346	0.578	ug/l	74
11) Tert butyl alcohol	4.79	59	200	0.281	ug/l #	74
13) Acrolein	3.61	56	175	0.291	ug/l #	55
16) Acetone	3.83	43	18076	8.523	ug/l	99
17) Carbon Disulfide	4.05	76	2100	0.274	ug/l #	75
18) Methyl Acetate	4.34	43	5810	0.540	ug/l #	88
20) Methylene Chloride	4.54	84	4723	0.297	ug/l	95
25) 2-Butanone	6.85	43	6122	2.181	ug/l	99
27) cis-1,2-Dichloroethene	6.84	96	7887	1.853	ug/l	92
29) Tetrahydrofuran	7.22	42	1613	0.940	ug/l #	68
30) Chloroform	7.38	83	2146	0.321	ug/l #	80
31) Cyclohexane	7.67	56	6323	0.967	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	24868	4.348	ug/l #	49
38) Carbon Tetrachloride	7.67	117	33235	6.645	ug/l #	14
41) Methacrylonitrile	7.23	41	1093	0.440	ug/l #	18
43) Isopropyl Acetate	8.17	43	14407	1.662	ug/l #	90
44) Trichloroethene	8.84	130	14082	2.972	ug/l	93
45) 1,2-Dichloropropane	9.27	63	1810	0.385	ug/l #	43
48) Methyl methacrylate	9.18	41	8518	1.961	ug/l #	12
49) 1,4-Dioxane	9.27	88	67	0.743	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5185	0.927	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	167	2.917	ug/l #	85
54) cis-1,3-Dichloropropene	9.90	75	60573	9.635	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	13164	1.813	ug/l #	42
59) 2-Hexanone	10.76	43	176770	42.998	ug/l #	51
60) Dibromochloromethane	10.63	129	618	2.514	ug/l #	10
68) m/p-Xylenes	11.62	106	1738	0.204	ug/l	100
71) Bromoform	12.40	173	1676	3.578	ug/l #	1
73) Isopropylbenzene	12.25	105	1471	Below Cal		78
75) 1,1,2,2-Tetrachloroethane	12.50	83	136	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	126379	29.008	ug/l #	100
79) 2-Chlorotoluene	12.67	91	1188	Below Cal		87
80) 1,3,5-Trimethylbenzene	12.73	105	4078	Below Cal		98

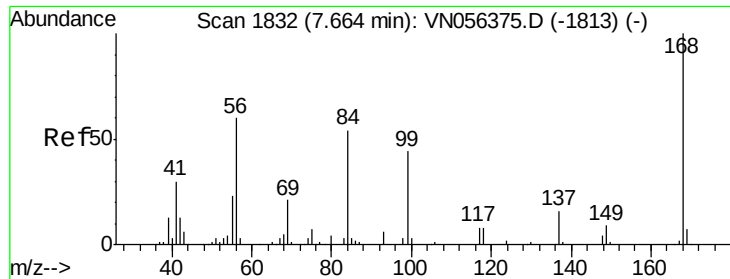
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) trans-1,4-Dichloro-2-buten	12.40	75	126379	103.097	uq/l #	8
83) tert-Butylbenzene	12.99	119	1044	Below Cal		92
84) 1,2,4-Trimethylbenzene	13.04	105	4689	0.331	uq/l	98
88) 1,4-Dichlorobenzene	13.36	146	1505	0.218	uq/l #	1
89) n-Butylbenzene	13.62	91	3235	0.294	uq/l	83
93) 1,2,4-Trichlorobenzene	14.91	180	1549	5.988	uq/l #	82
94) Hexachlorobutadiene	15.00	225	579	Below Cal	#	60
95) Naphthalene	15.13	128	16877	6.816	uq/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	2387	5.052	uq/l #	80

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

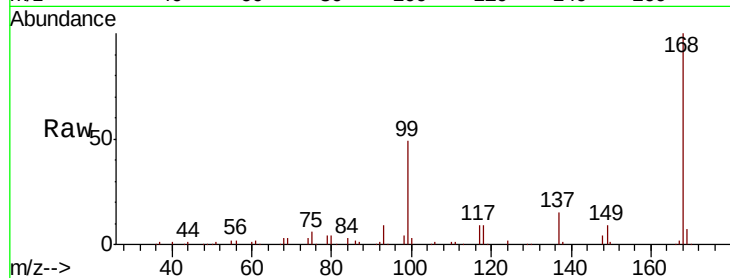
FRAC-TANK-MUD

Tot Ion:168 Resp: 381935

Ion Ratio Lower Upper

168 100

99 49.3 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN056397.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056397.D (-1739) (-)

7.67

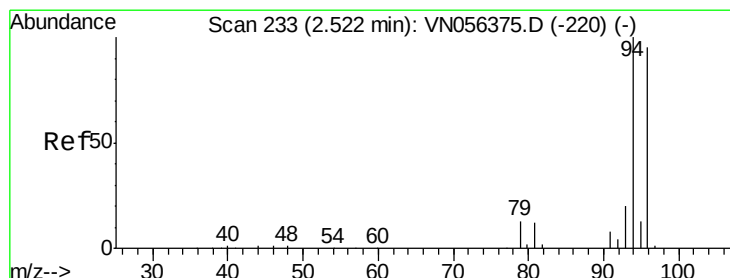
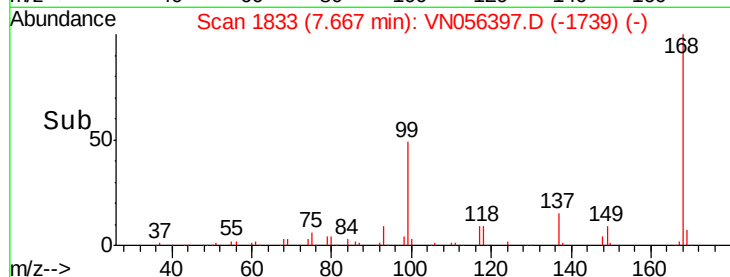
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: 0.215 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN056397.D

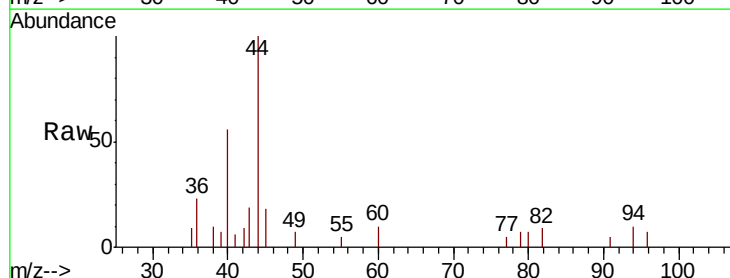
Acq: 20 Jun 2019 13:05

Tgt Ion: 94 Resp: 535

Ion Ratio Lower Upper

94 100

96 68.5 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VN056397.D (-140) (-)

Ion 95.90 (95.60 to 96.60): VN056397.D (-140) (-)

2.54

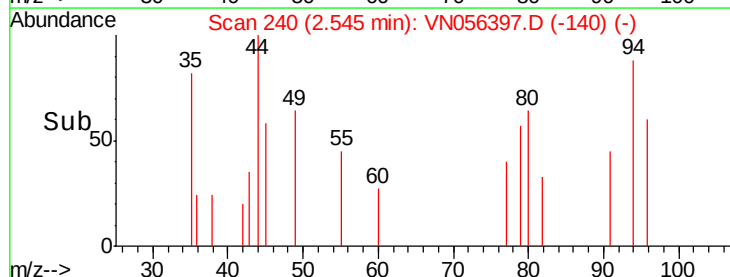
300

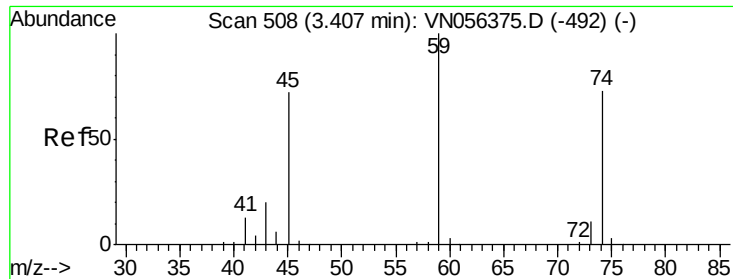
200

100

0

Time--> 2.50 2.52 2.54 2.56 2.58





#8

Diethyl Ether

Concen: 0.578 ug/l

RT: 3.40 min Scan# 507

Delta R.T. -0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

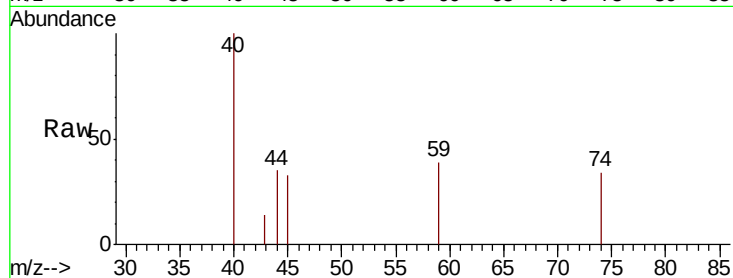
FRAC-TANK-MUD

Tot Ion: 74 Resp: 1346

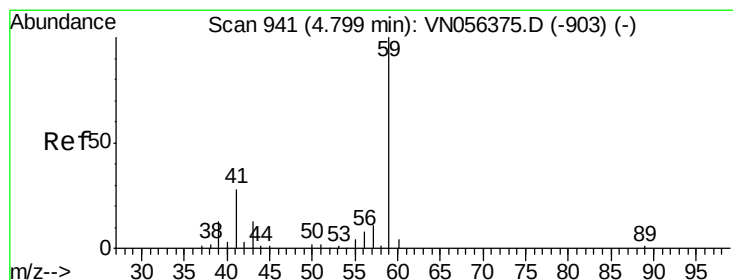
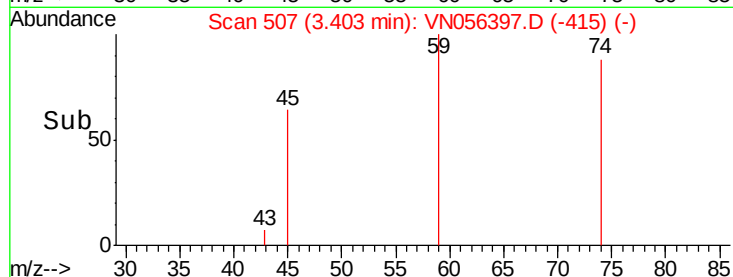
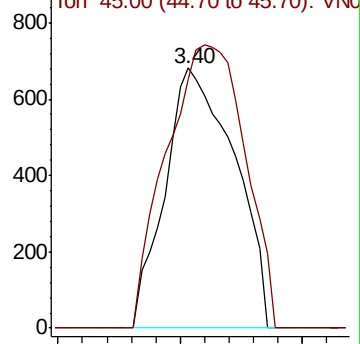
Ion Ratio Lower Upper

74 100

45 123.4 48.9 146.6



Abundance Ion 74.00 (73.70 to 74.70): VN0



#11

Tert butyl alcohol

Concen: 0.281 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.01 min

Lab File: VN056397.D

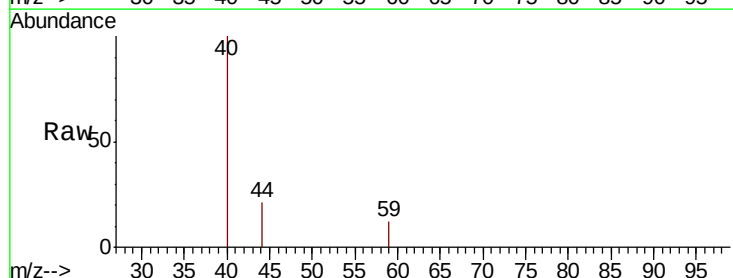
Acq: 20 Jun 2019 13:05

Tgt Ion: 59 Resp: 200

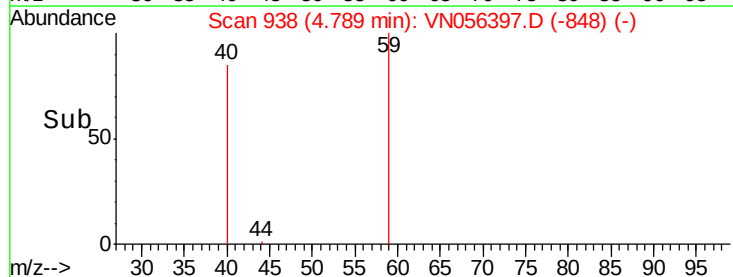
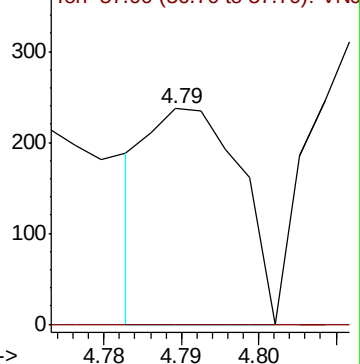
Ion Ratio Lower Upper

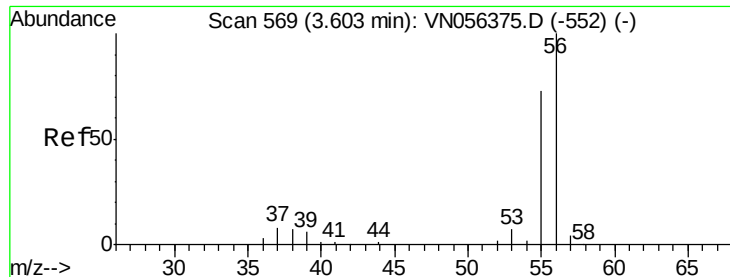
59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0





#13

Acrolein

Concen: 0.291 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

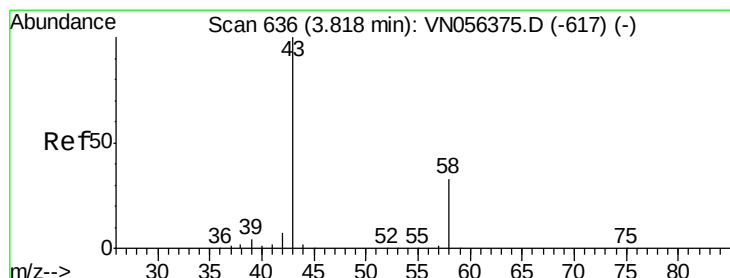
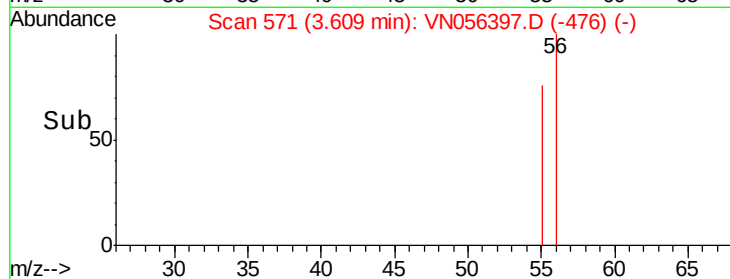
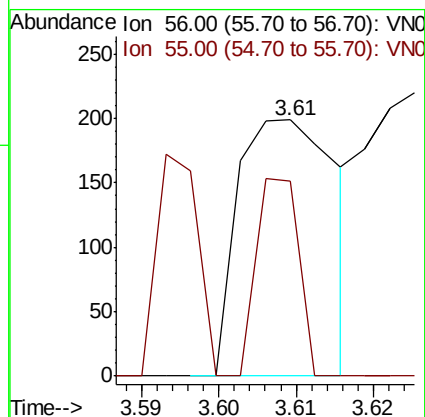
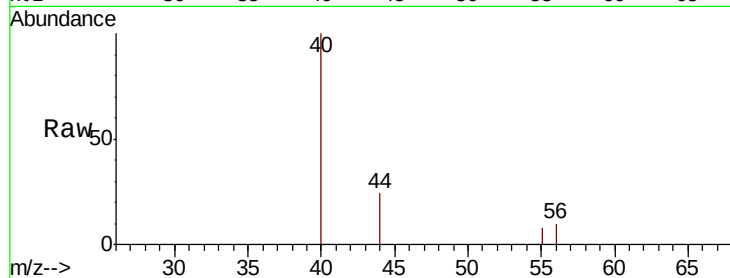
FRAC-TANK-MUD

Tot Ion: 56 Resp: 175

Ion Ratio Lower Upper

56 100

55 33.7 57.1 85.7#



#16

Acetone

Concen: 8.523 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056397.D

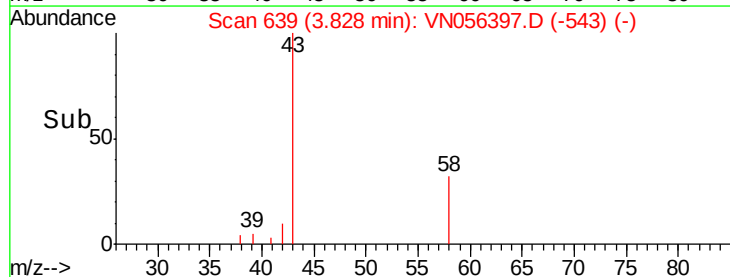
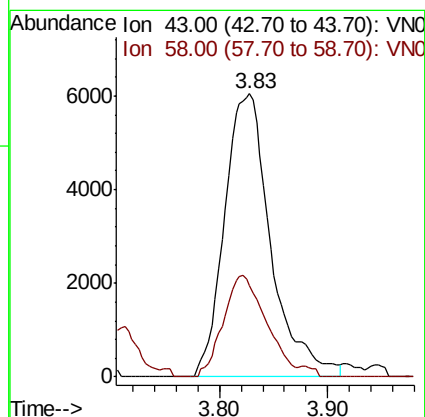
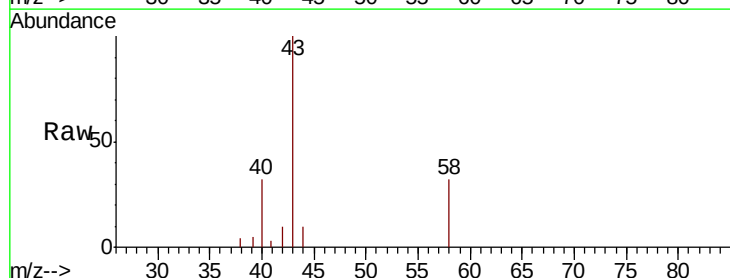
Acq: 20 Jun 2019 13:05

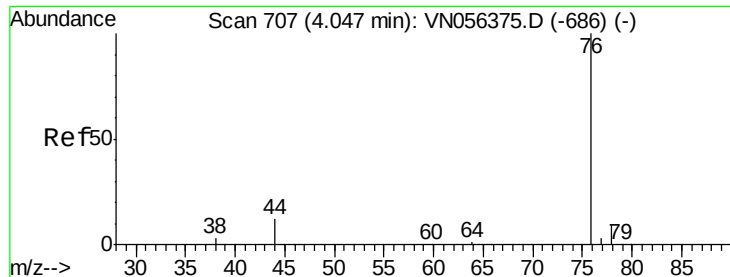
Tgt Ion: 43 Resp: 18076

Ion Ratio Lower Upper

43 100

58 32.3 26.4 39.6

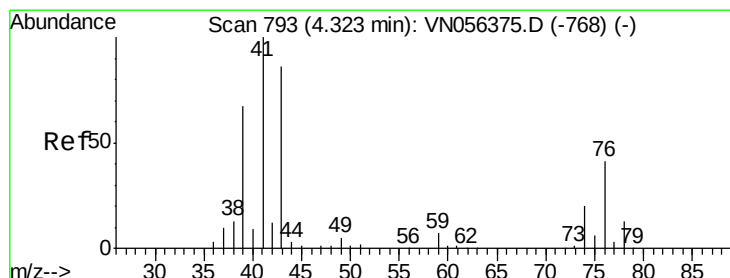
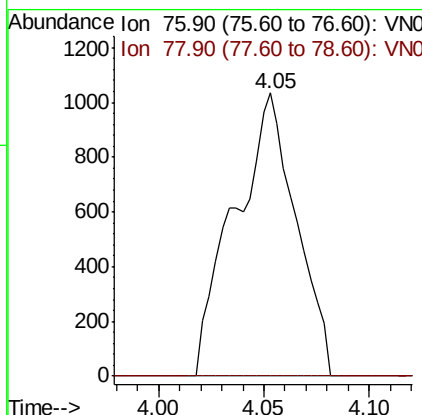
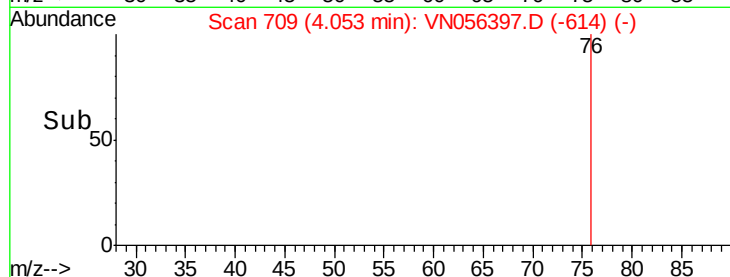
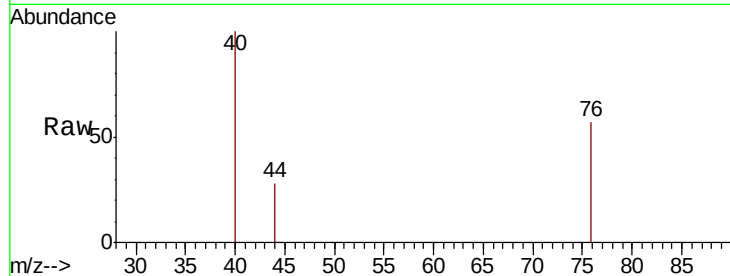




#17
Carbon Disulfide
Concen: 0.274 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.01 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

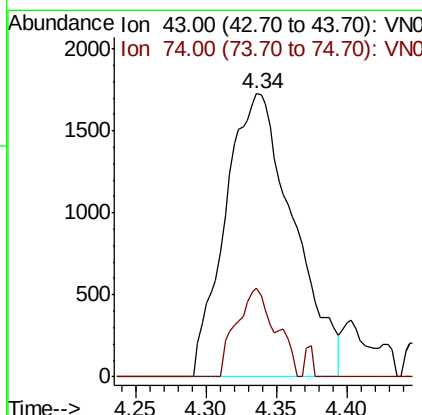
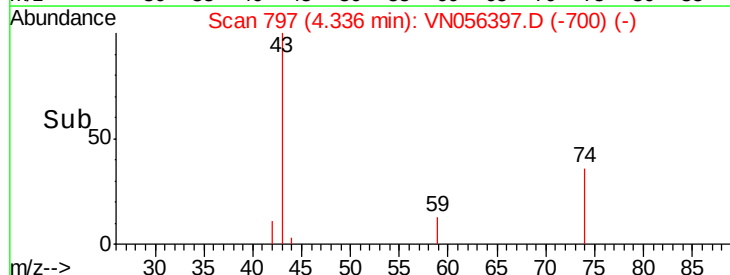
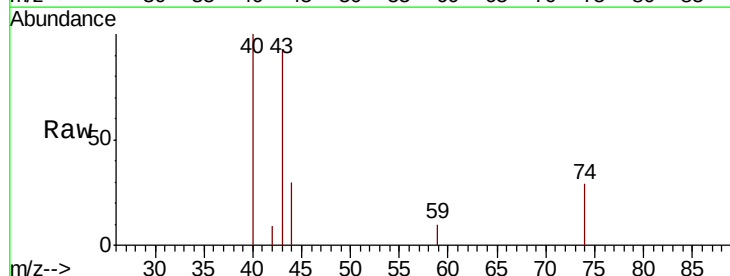
Instrument :
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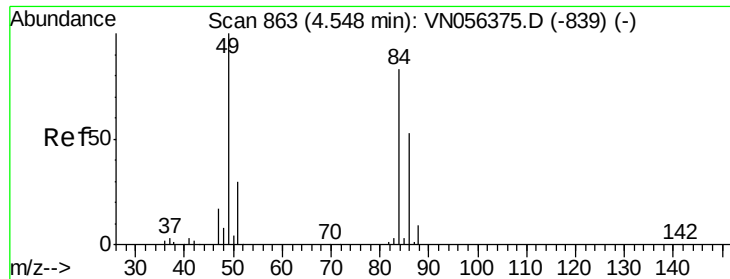
Tot Ion: 76 Resp: 2100
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 0.540 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Tgt Ion: 43 Resp: 5810
Ion Ratio Lower Upper
43 100
74 18.2 19.2 28.8#

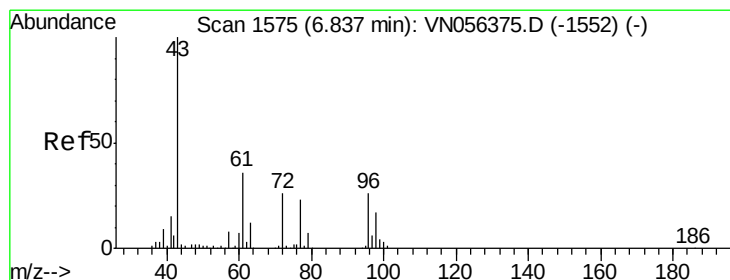
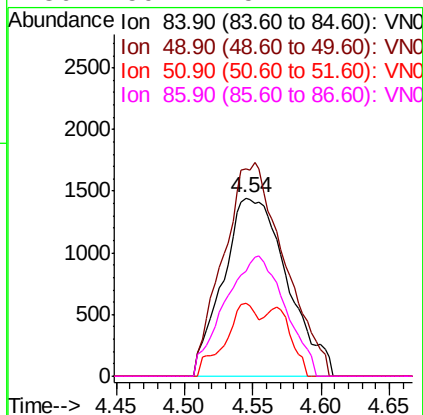
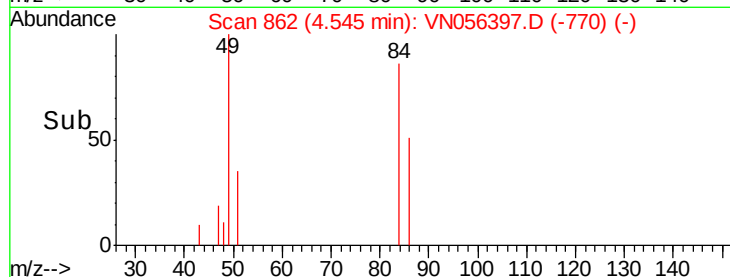
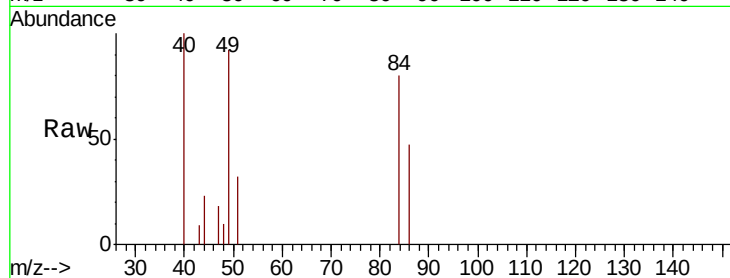




#20
Methvlene Chloride
Concen: 0.297 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

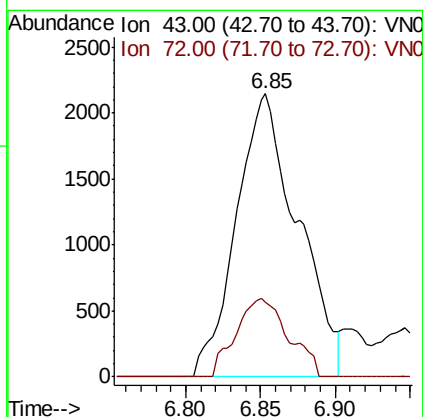
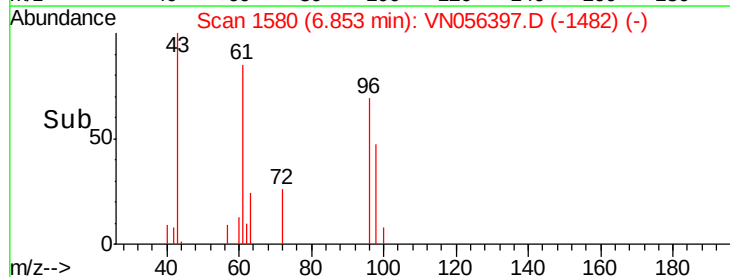
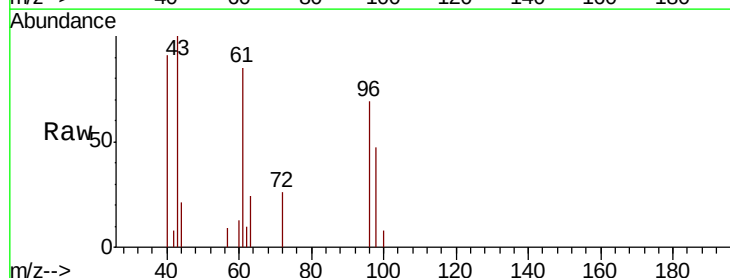
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-MUD

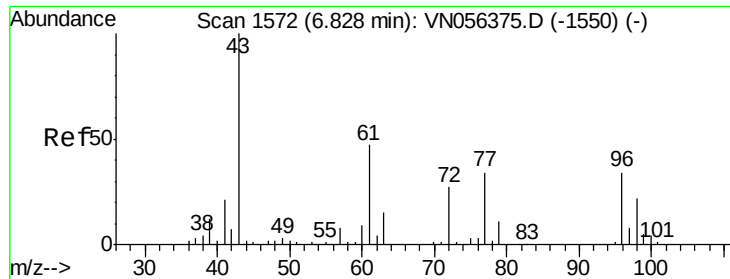
Tot Ion:	84	Resp:	4723
Ion	Ratio	Lower	Upper
84	100		
49	116.0	96.4	144.6
51	40.8	28.6	43.0
86	59.2	51.4	77.2



#25
2-Butanone
Concen: 2.181 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Tgt Ion:	43	Resp:	6122
Ion	Ratio	Lower	Upper
43	100		
72	26.4	20.6	31.0



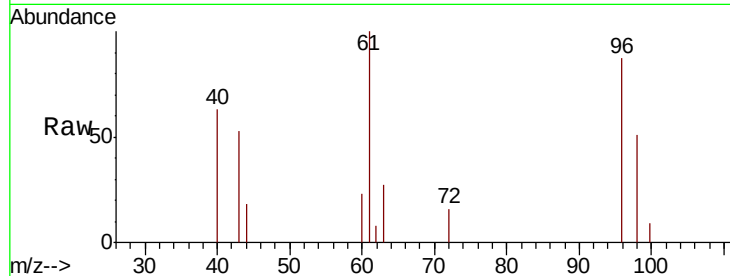


#27
 cis-1,2-Dichloroethene
 Concen: 1.853 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

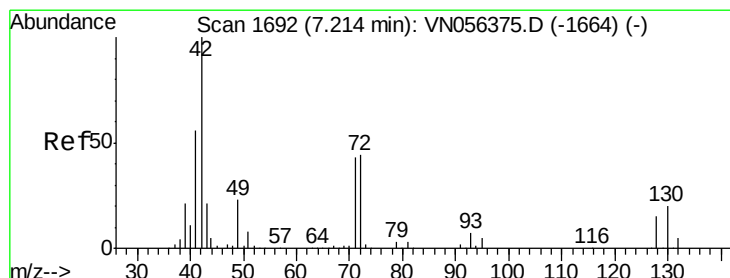
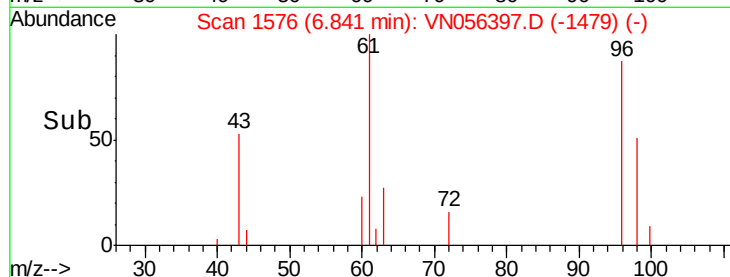
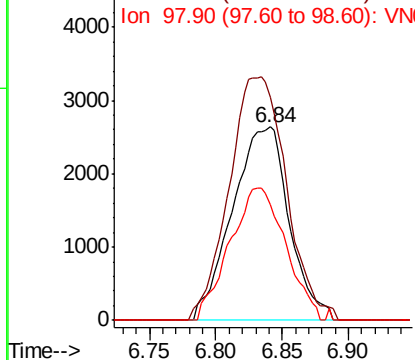
Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-MUD

Tot Ion: 96 Resp: 7887

Ion	Ratio	Lower	Upper
96	100		
61	126.9	0.0	279.8
98	67.0	0.0	130.0



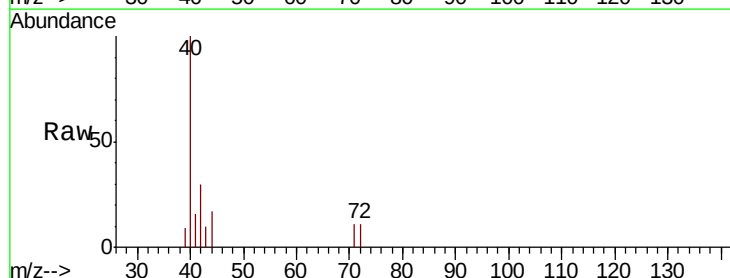
Abundance Ion 95.90 (95.60 to 96.60): VNO
 Ion 60.90 (60.60 to 61.60): VNO
 Ion 97.90 (97.60 to 98.60): VNO



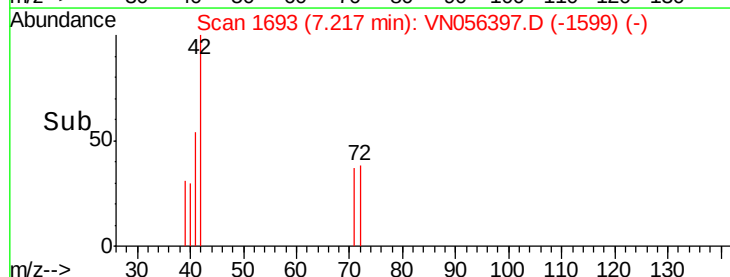
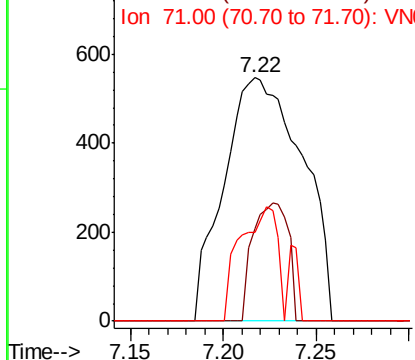
#29
 Tetrahydrofuran
 Concen: 0.940 ug/l
 RT: 7.22 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

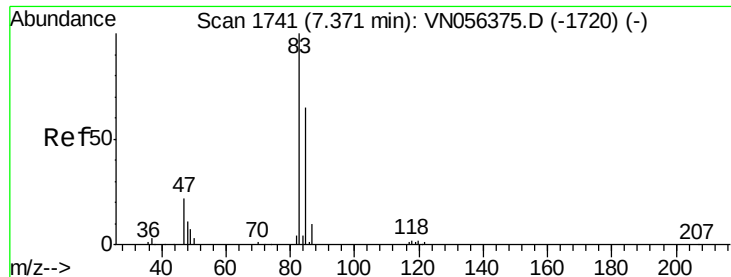
Tgt Ion: 42 Resp: 1613

Ion	Ratio	Lower	Upper
42	100		
72	21.7	34.7	52.1#
71	22.1	33.0	49.6#



Abundance Ion 42.00 (41.70 to 42.70): VNO
 Ion 72.00 (71.70 to 72.70): VNO
 Ion 71.00 (70.70 to 71.70): VNO

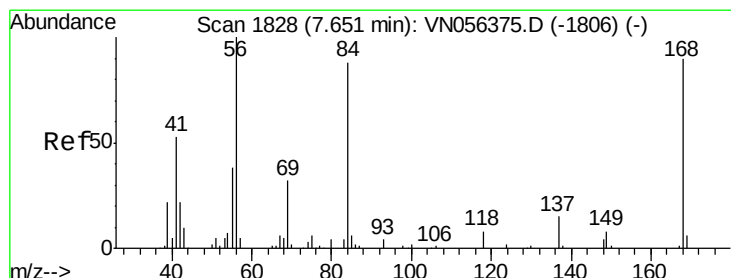
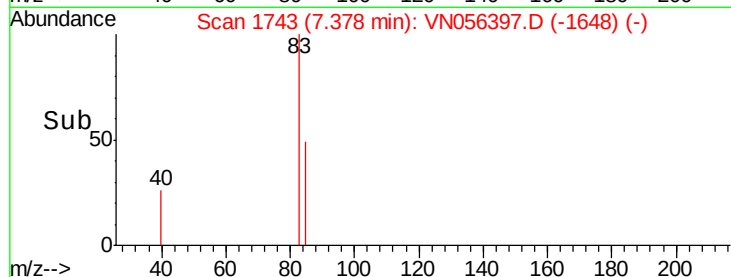
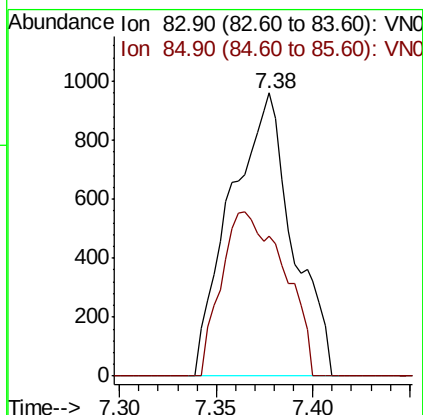
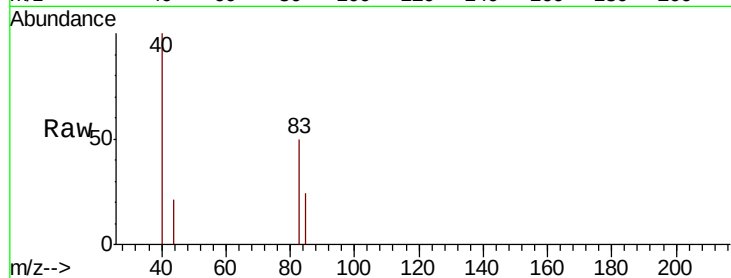




#30
Chloroform
Concen: 0.321 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

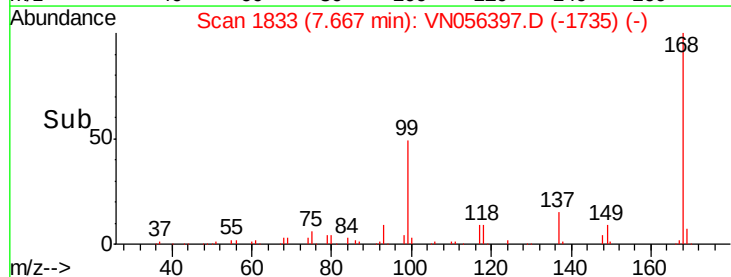
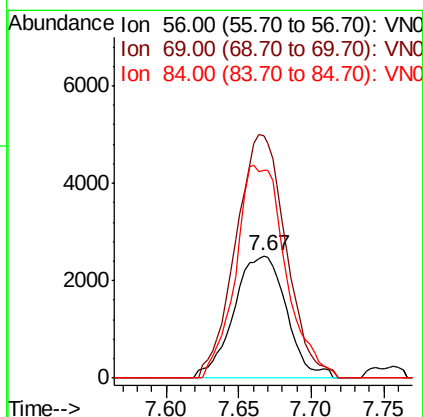
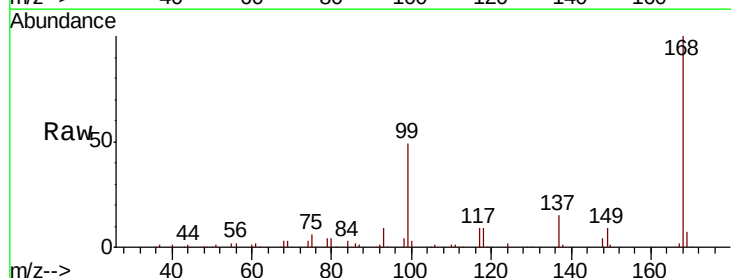
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-MUD

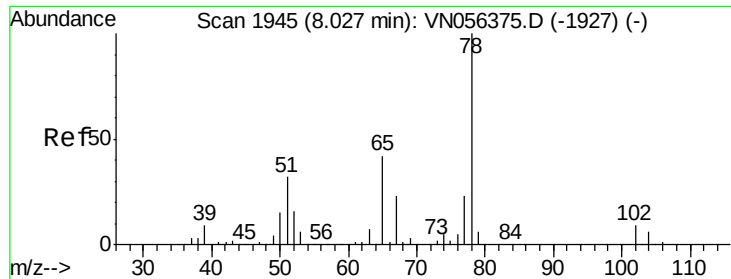
Tot Ion: 83 Resp: 2146
Ion Ratio Lower Upper
83 100
85 49.3 52.3 78.5#



#31
Cyclohexane
Concen: 0.967 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Tgt Ion: 56 Resp: 6323
Ion Ratio Lower Upper
56 100
69 198.1 25.8 38.6#
84 169.6 69.4 104.0#





#33

1,2-Dichloroethane-d4

Concen: 50.883 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

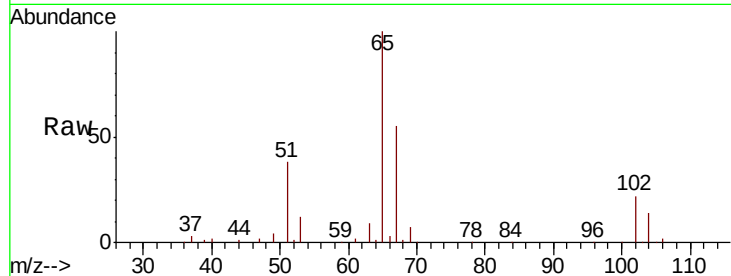
FRAC-TANK-MUD

Tot Ion: 65 Resp: 215387

Ion Ratio Lower Upper

65 100

67 54.5 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

100000

80000

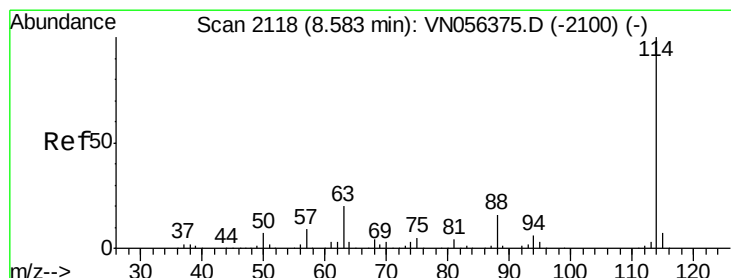
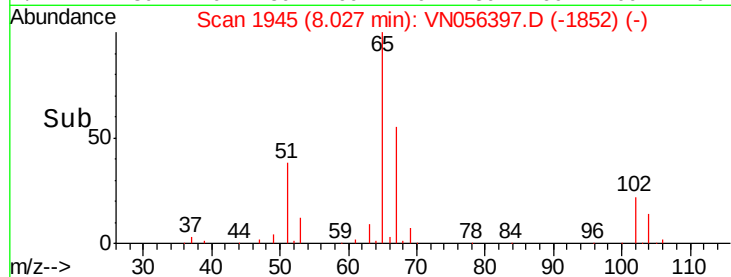
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

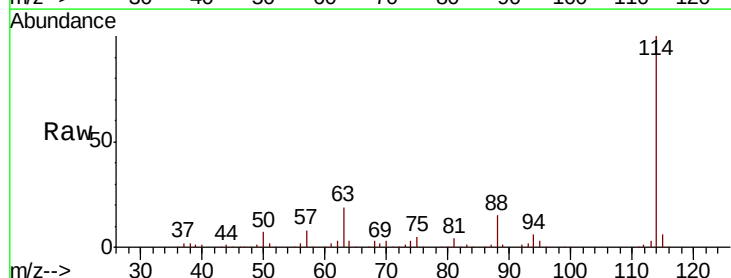
Tgt Ion: 114 Resp: 649762

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.2

88 15.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

400000

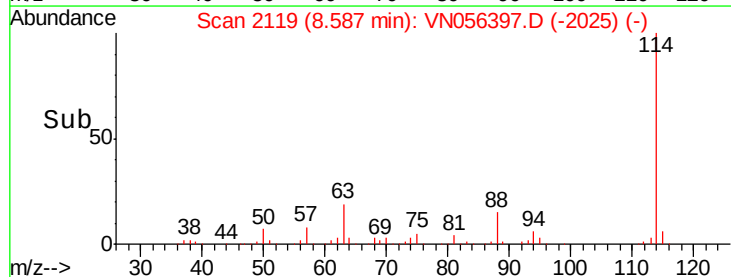
300000

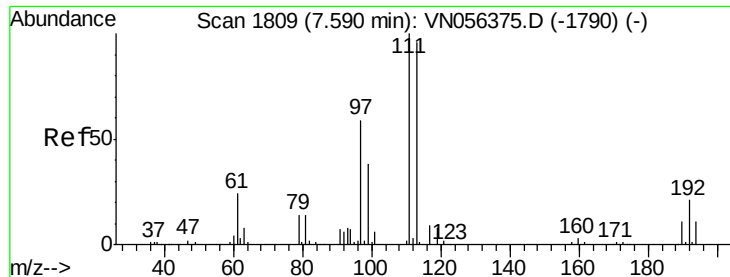
200000

100000

0

Time-->

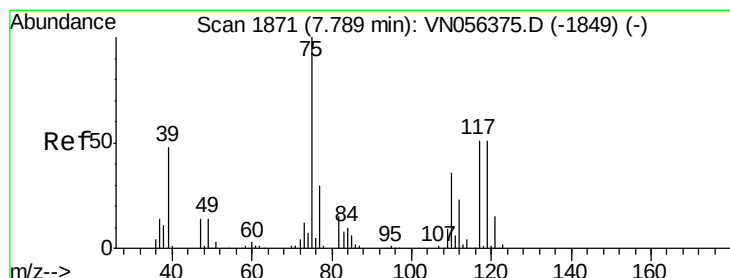
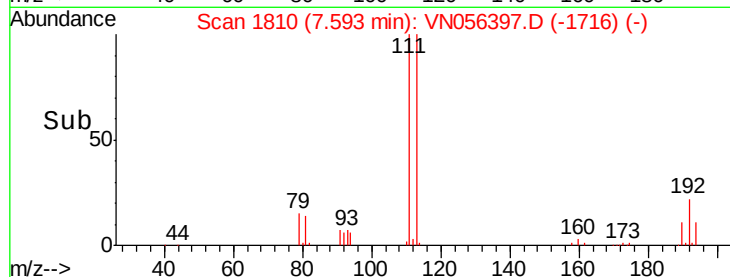
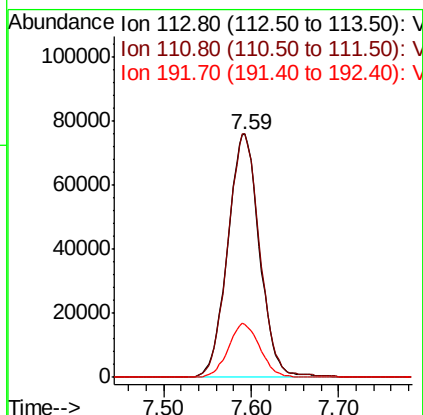
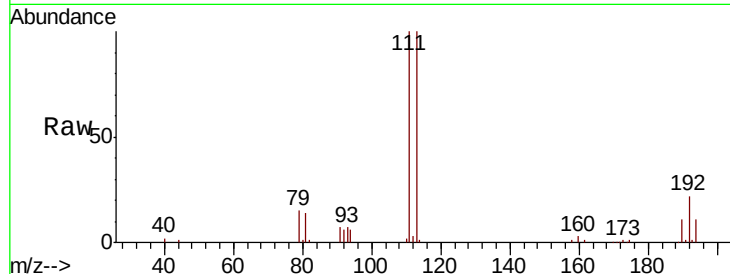




#35
 Dibromofluoromethane
 Concen: 47.284 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

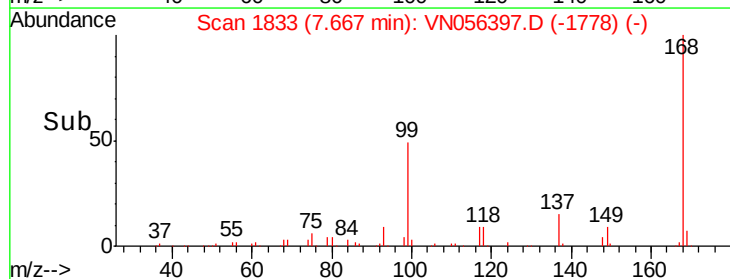
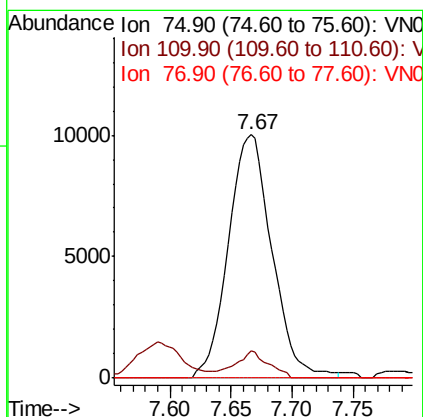
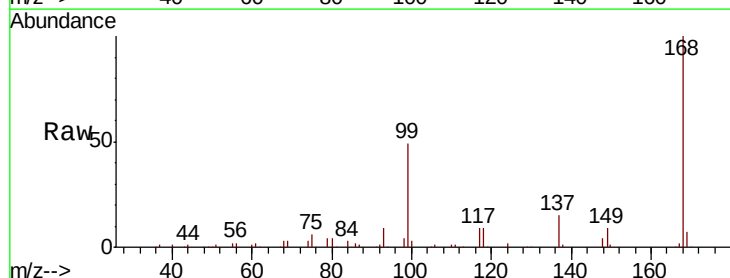
Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-MUD

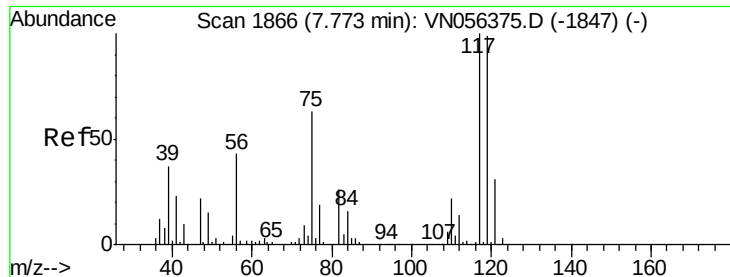
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.3	82.9	124.3
192	21.8	17.7	26.5



#36
 1,1-Dichloropropene
 Concen: 4.348 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.1	54.3#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.645 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-MUD

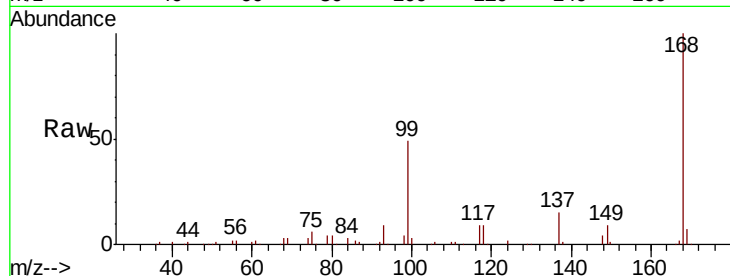
Tot Ion: 117 Resp: 33235

Ion Ratio Lower Upper

117 100

119 4.7 79.1 118.7#

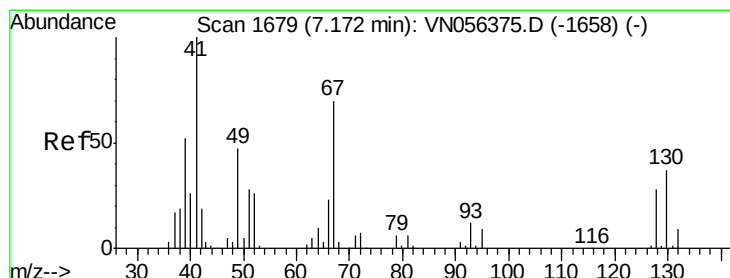
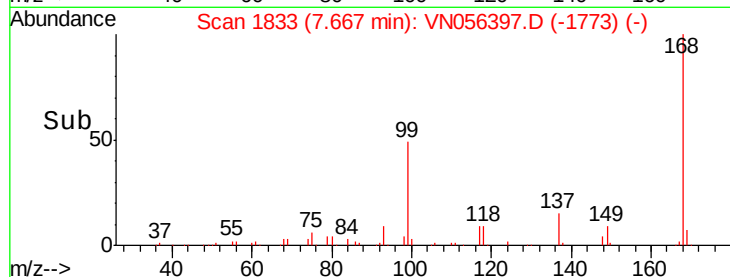
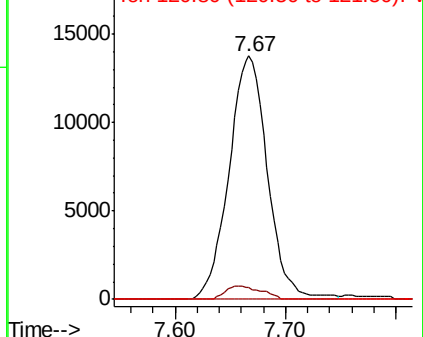
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.440 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.06 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Tgt Ion: 41 Resp: 1093

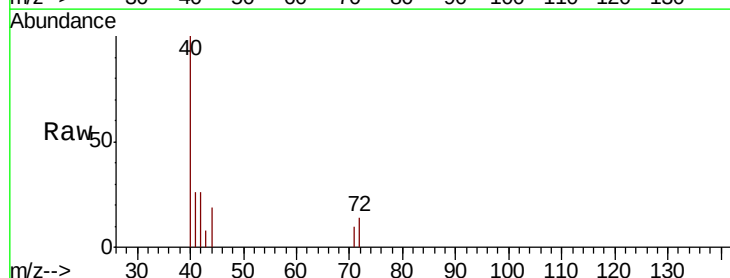
Ion Ratio Lower Upper

41 100

39 14.5 55.3 82.9#

67 0.0 79.2 118.8#

52 0.0 31.4 47.0#

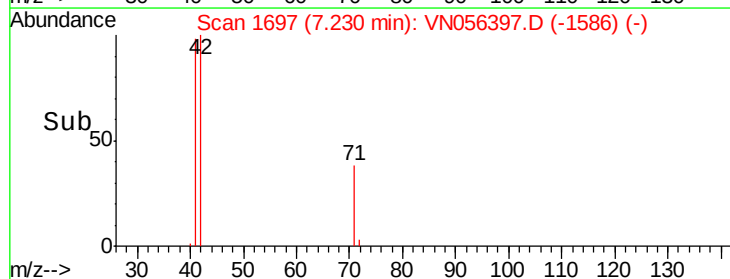
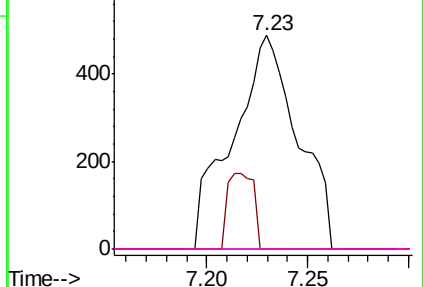


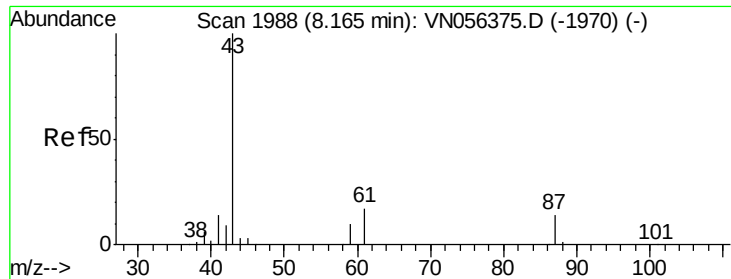
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.662 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-MUD

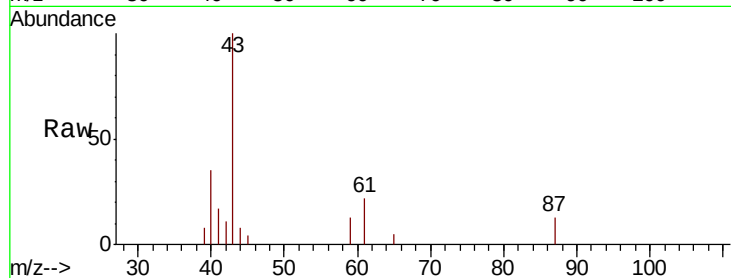
Tot Ion: 43 Resp: 14407

Ion Ratio Lower Upper

43 100

61 20.4 22.0 33.0#

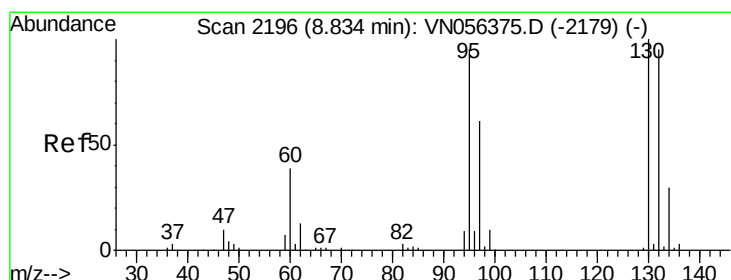
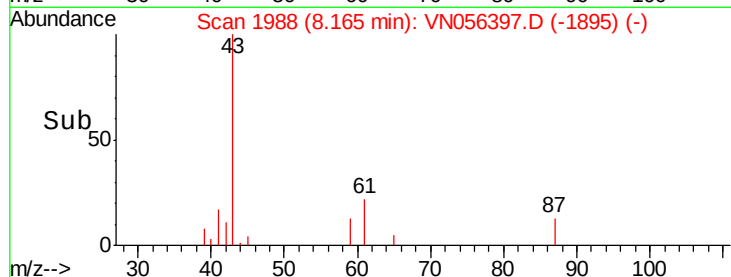
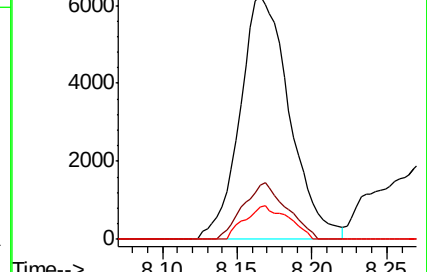
87 12.1 11.0 16.4



Abundance Ion 43.00 (42.70 to 43.70): VN056397.D (-2103) (-)

Ion 61.00 (60.70 to 61.70): VN056397.D (-2103) (-)

Ion 87.00 (86.70 to 87.70): VN056397.D (-2103) (-)



#44

Trichloroethene

Concen: 2.972 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN056397.D

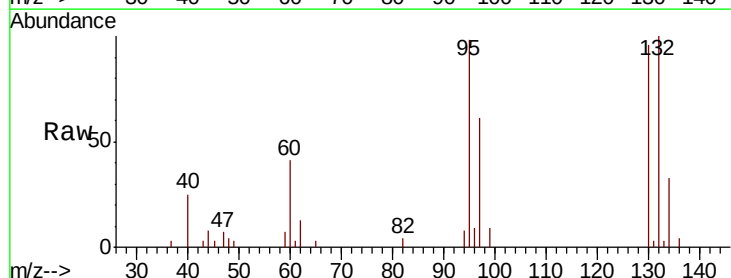
Acq: 20 Jun 2019 13:05

Tgt Ion:130 Resp: 14082

Ion Ratio Lower Upper

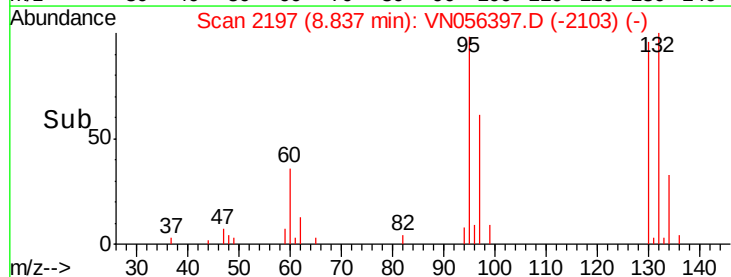
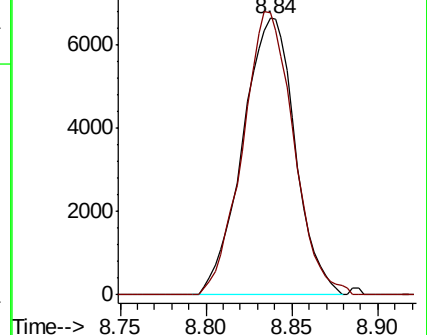
130 100

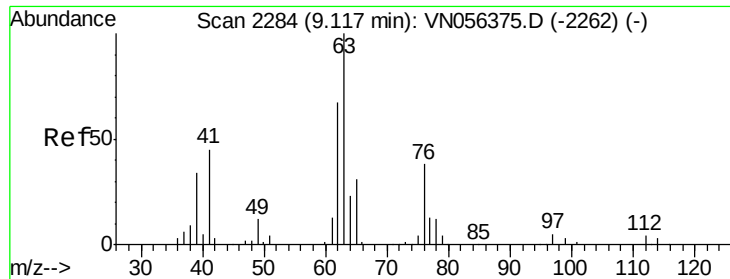
95 101.8 0.0 191.0



Abundance Ion 129.80 (129.50 to 130.50): VN056397.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN056397.D (-2103) (-)

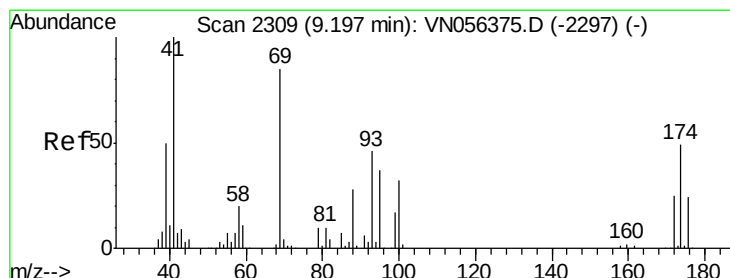
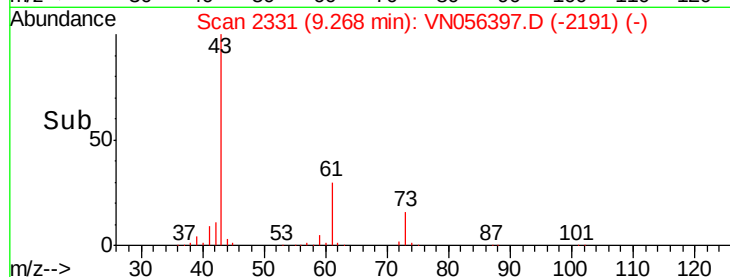
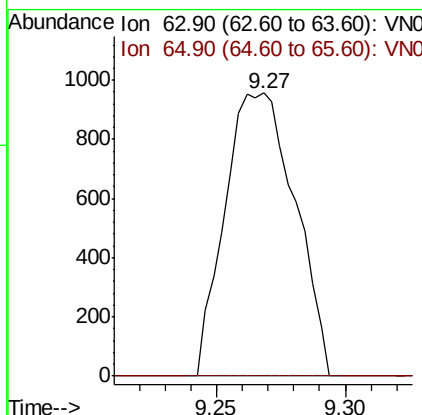
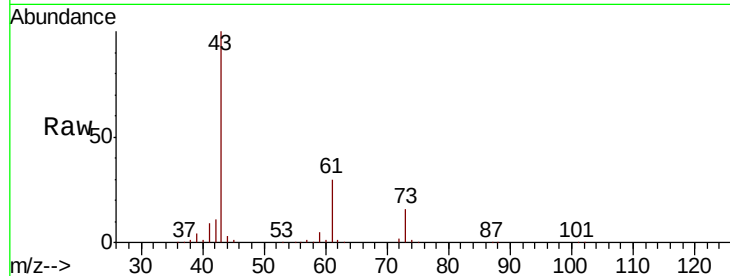




#45
 1,2-Dichloropropane
 Concen: 0.385 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

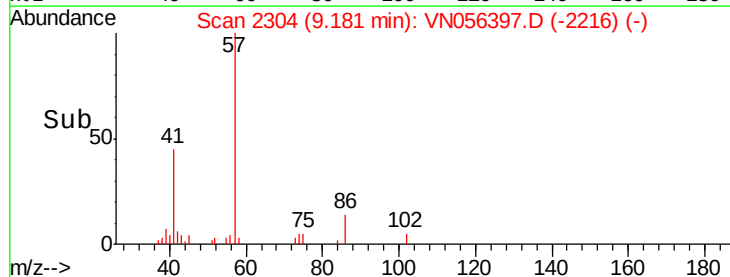
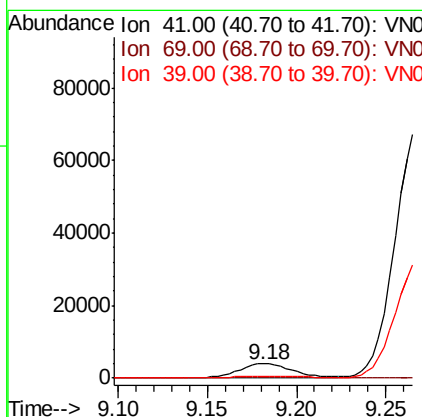
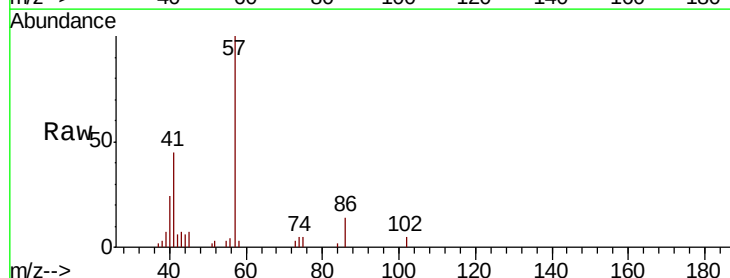
Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-MUD

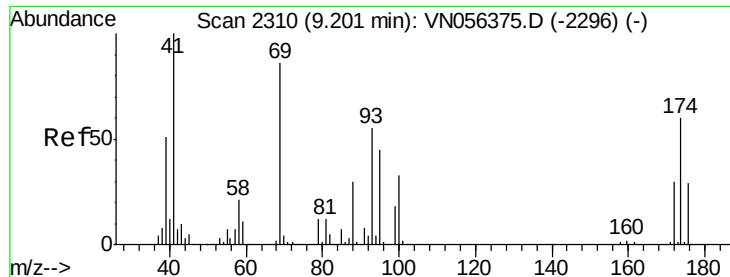
Tot Ion: 63 Resp: 1810
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.961 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

Tgt Ion: 41 Resp: 8518
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 109.0#
 39 0.0 42.6 63.8#





#49

1,4-Dioxane

Concen: 0.743 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-MUD

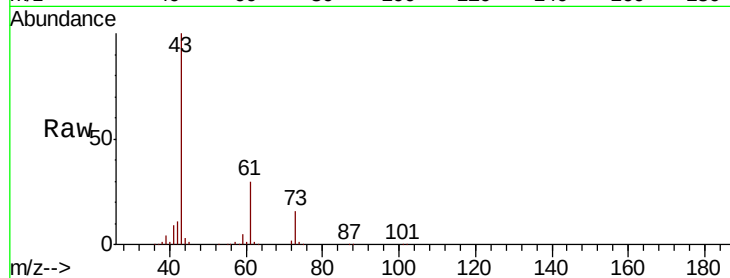
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 2203067.2 22.0 33.0#

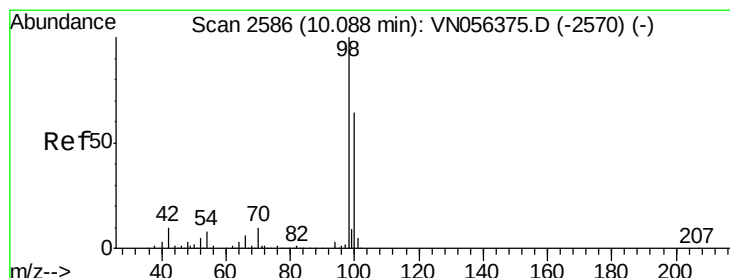
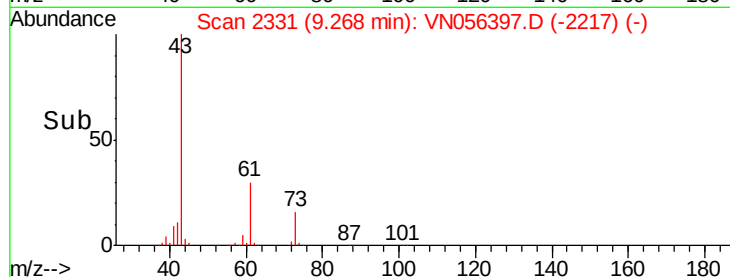
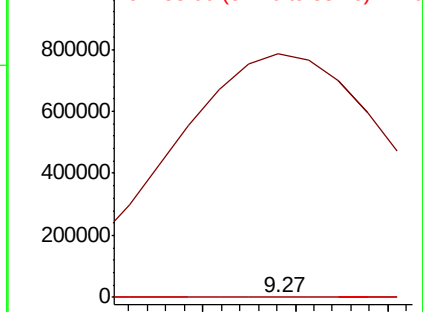
58 9079.1 51.8 77.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.675 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056397.D

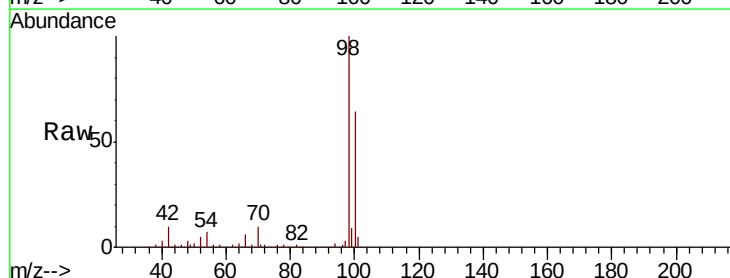
Acq: 20 Jun 2019 13:05

Tgt Ion: 98 Resp: 815029

Ion Ratio Lower Upper

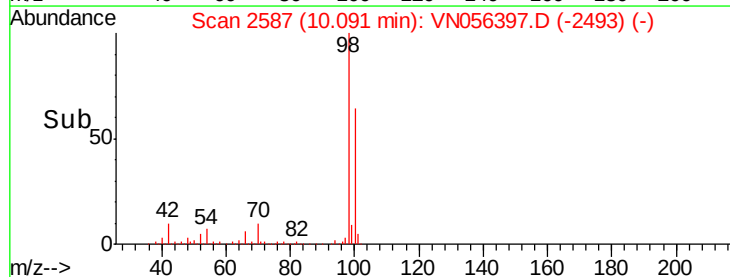
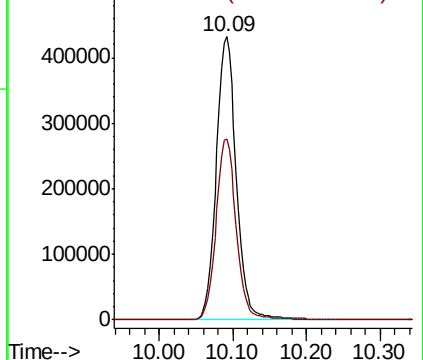
98 100

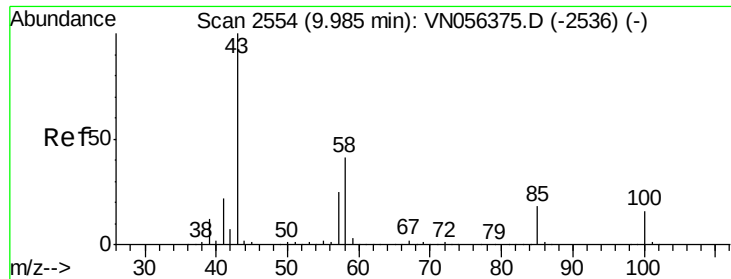
100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.927 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

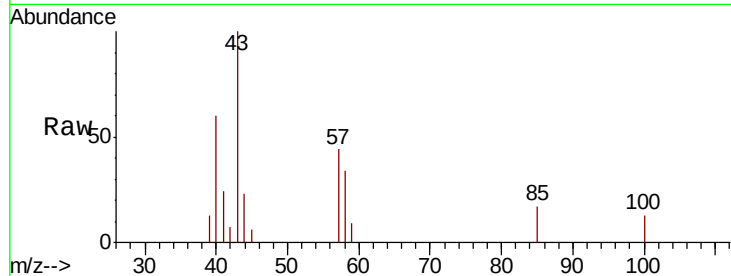
FRAC-TANK-MUD

Tot Ion: 43 Resp: 5185

Ion Ratio Lower Upper

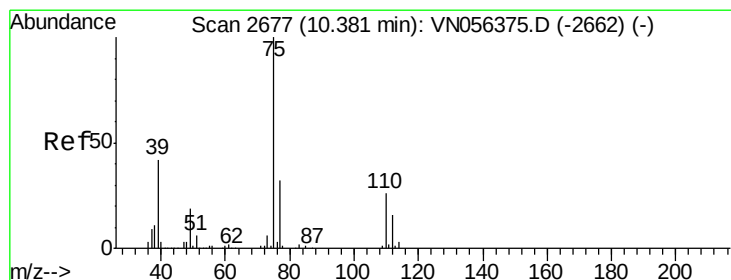
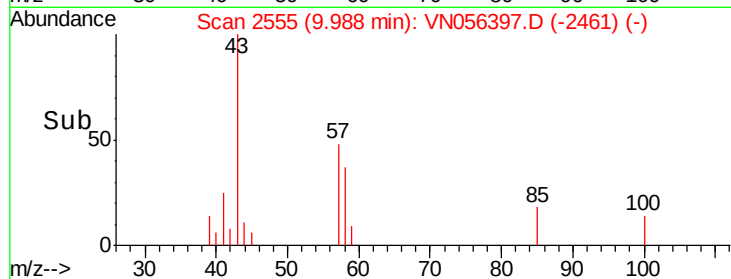
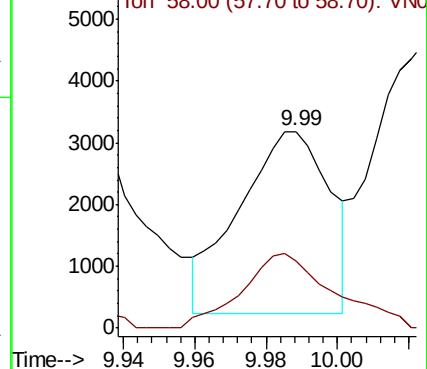
43 100

58 41.4 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#53

t-1,3-Dichloropropene

Concen: 2.917 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN056397.D

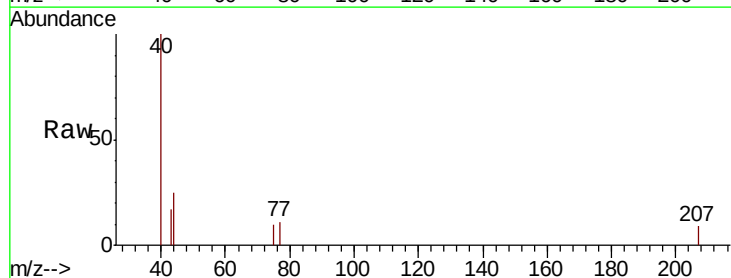
Acq: 20 Jun 2019 13:05

Tgt Ion: 75 Resp: 167

Ion Ratio Lower Upper

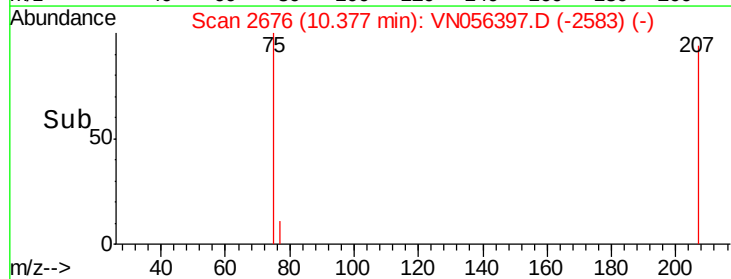
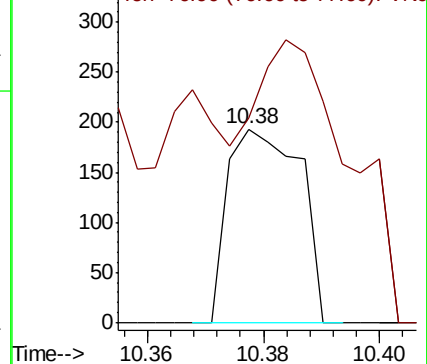
75 100

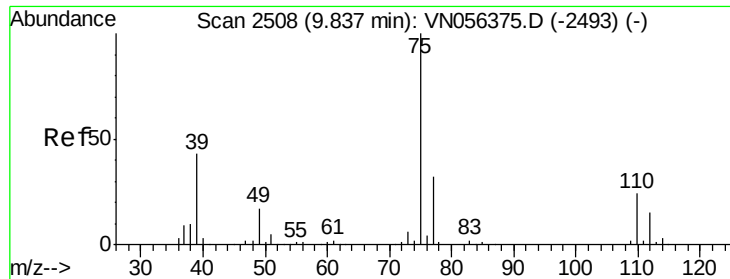
77 23.3 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

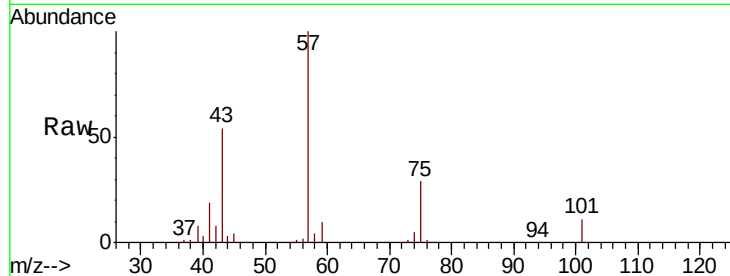




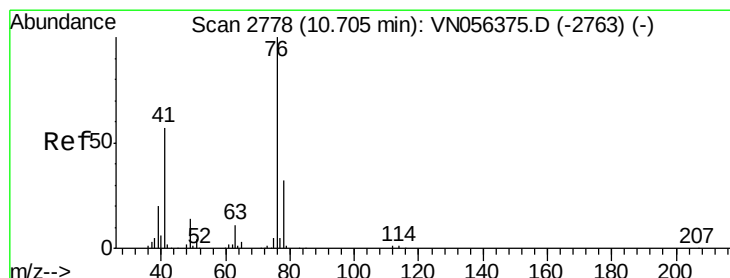
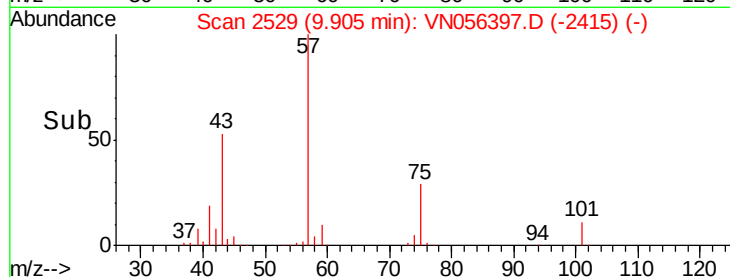
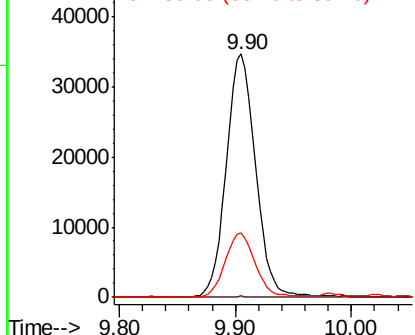
#54
 cis-1,3-Dichloropropene
 Concen: 9.635 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-MUD

Tot Ion: 75 Resp: 60573
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.2 37.8#
 39 26.6 34.2 51.4#

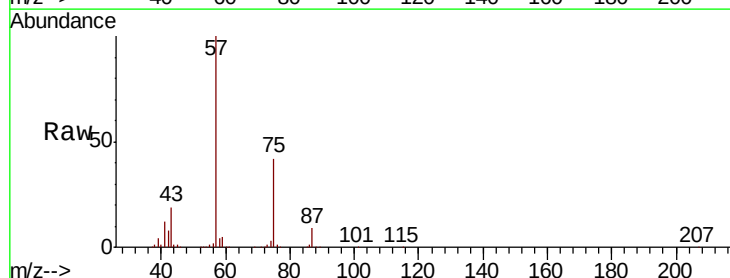


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0

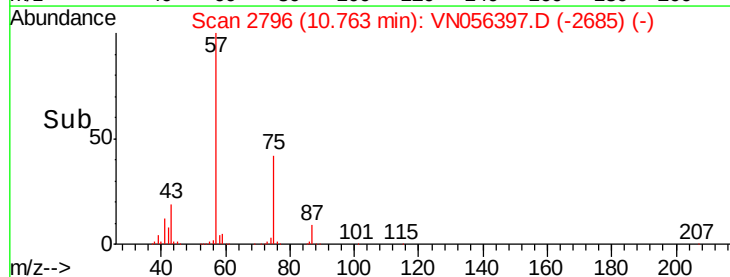
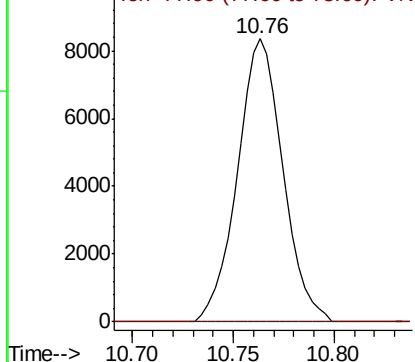


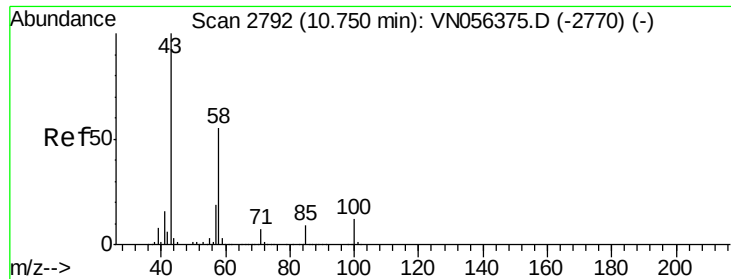
#57
 1,3-Dichloropropane
 Concen: 1.813 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

Tgt Ion: 76 Resp: 13164
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

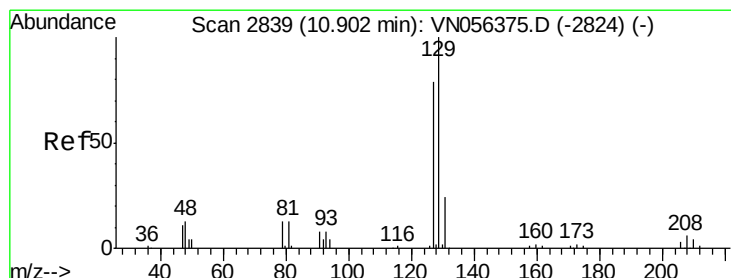
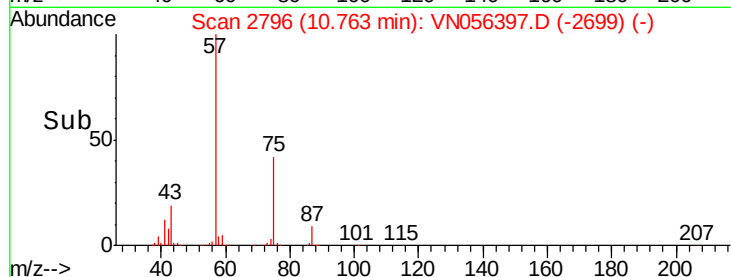
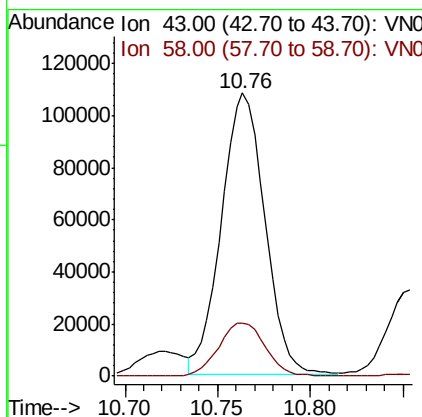
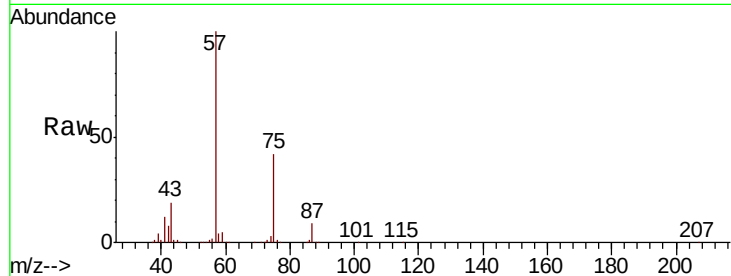




#59
2-Hexanone
Concen: 42.998 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

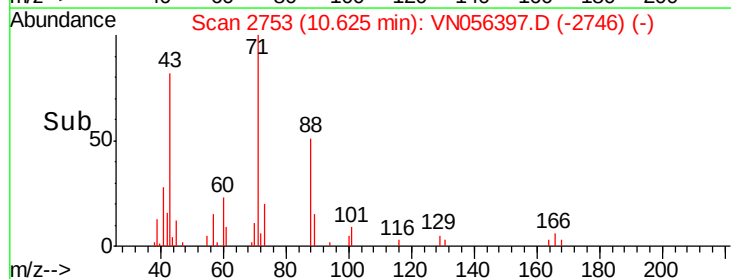
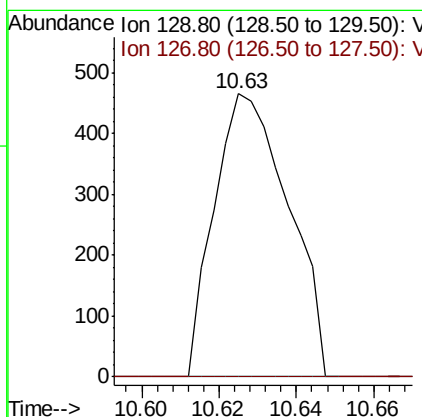
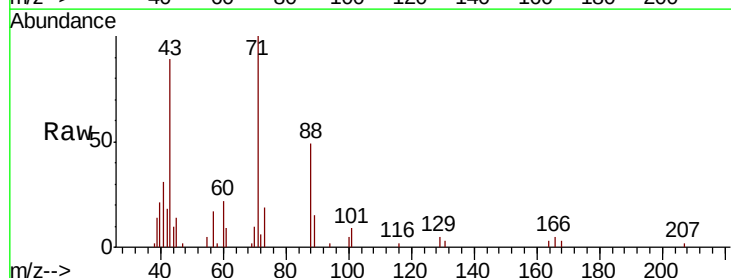
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-MUD

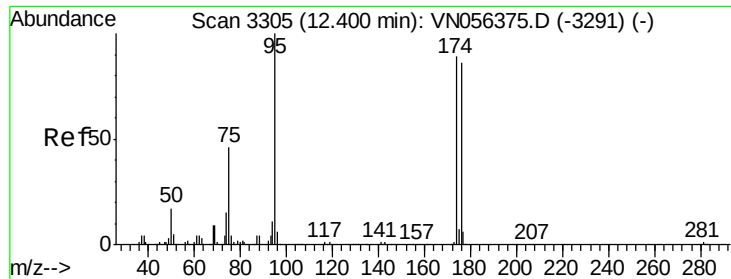
Tot Ion: 43 Resp: 176770
Ion Ratio Lower Upper
43 100
58 20.2 27.8 83.4#



#60
Dibromochloromethane
Concen: 2.514 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.28 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Tgt Ion: 129 Resp: 618
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#

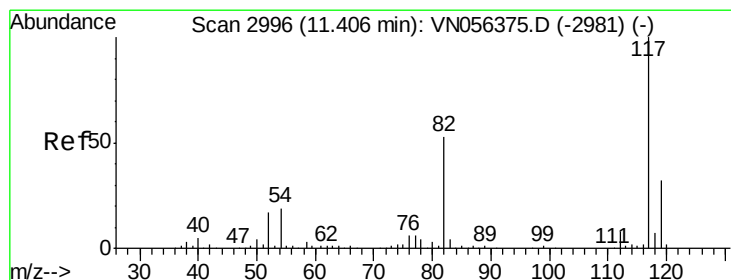
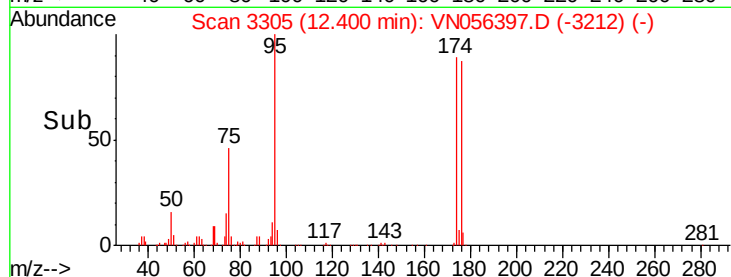
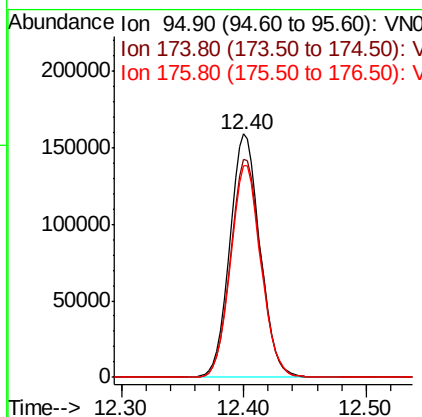
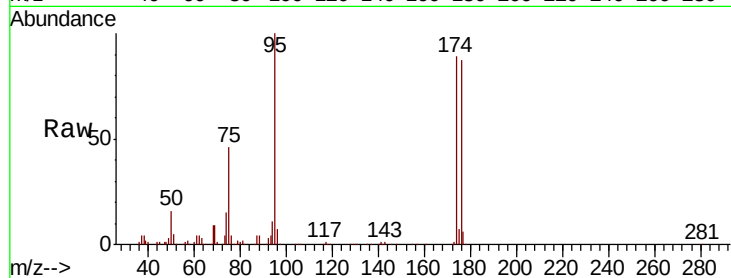




#62
4-Bromofluorobenzene
Concen: 52.148 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

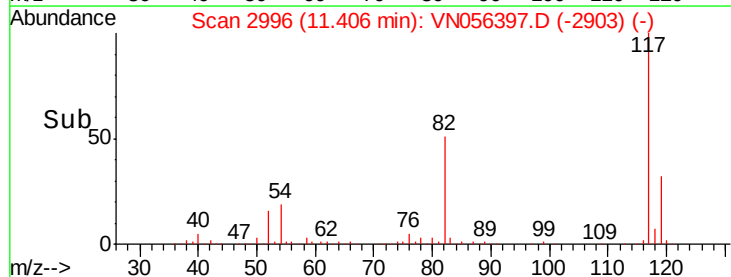
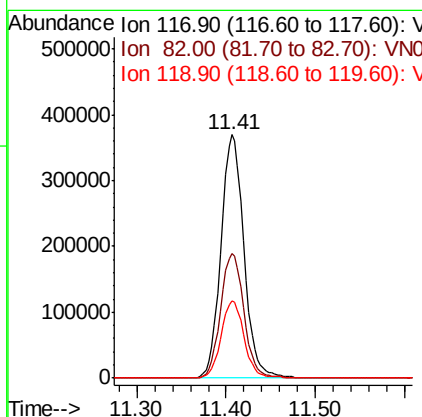
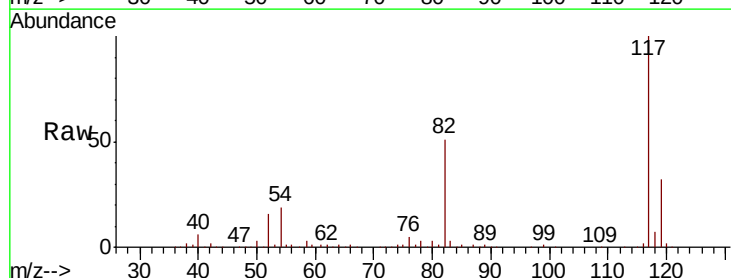
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-MUD

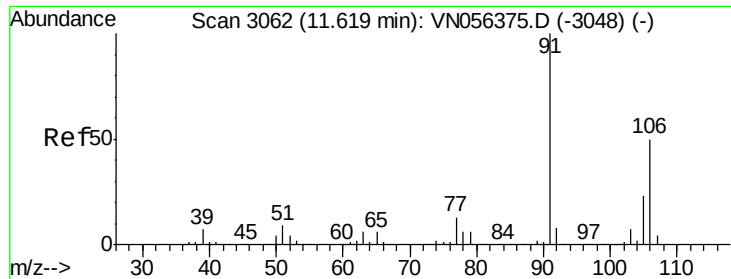
Tot Ion: 95 Resp: 274182
Ion Ratio Lower Upper
95 100
174 90.1 0.0 179.4
176 87.4 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Tgt Ion: 117 Resp: 658014
Ion Ratio Lower Upper
117 100
82 51.4 42.0 63.0
119 31.8 25.3 37.9

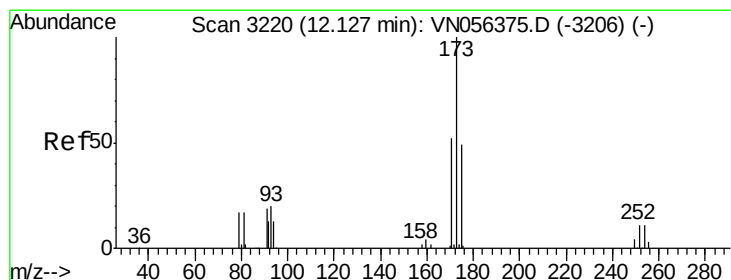
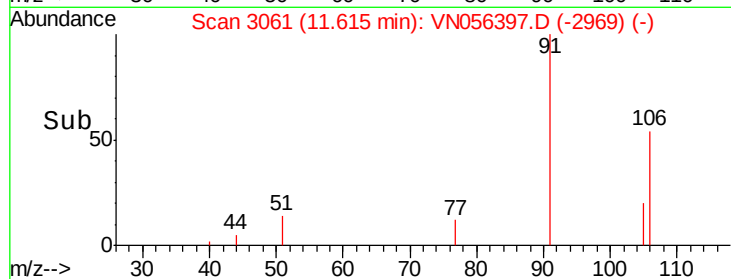
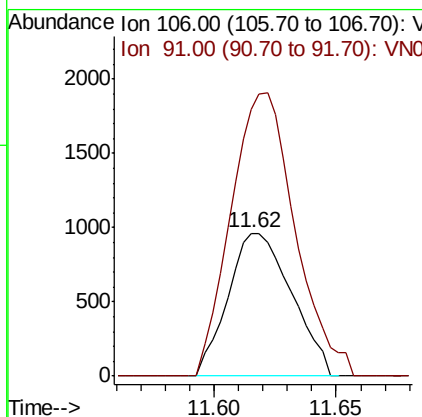
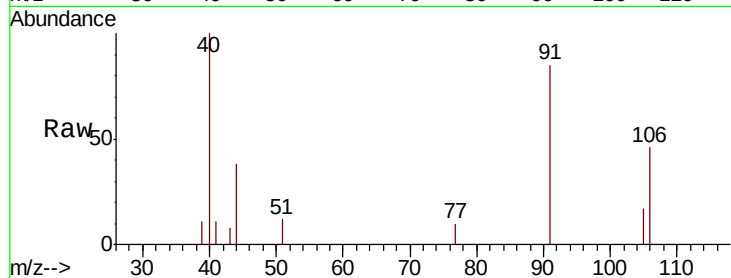




#68
m/p-Xvlenes
Concen: 0.204 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

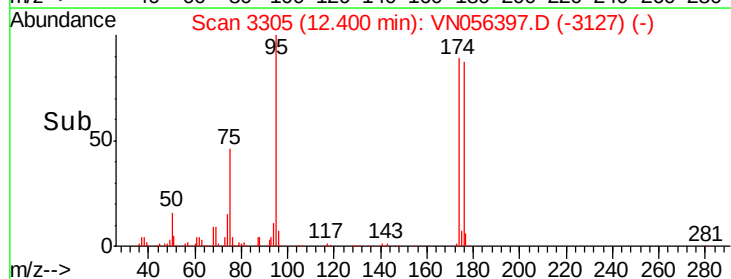
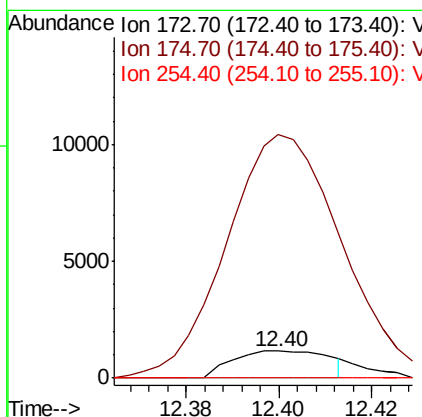
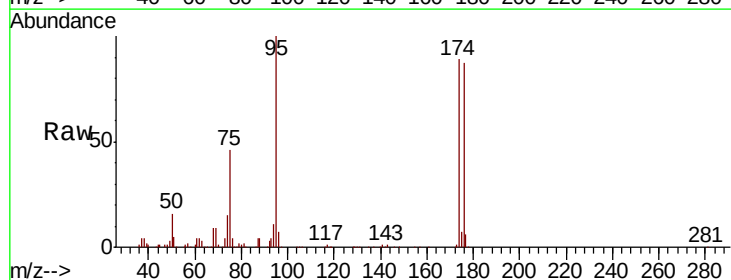
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-MUD

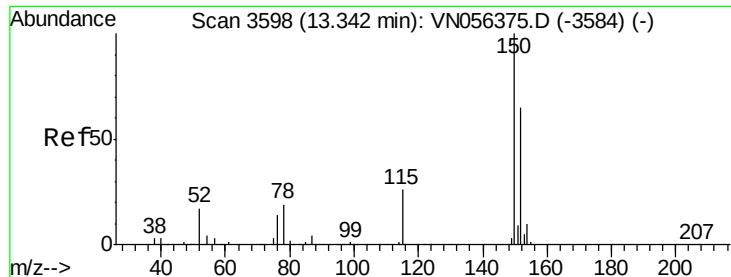
Tot Ion:106 Resp: 1738
Ion Ratio Lower Upper
106 100
91 200.3 160.1 240.1



#71
Bromoform
Concen: 3.578 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Tgt Ion:173 Resp: 1676
Ion Ratio Lower Upper
173 100
175 933.4 24.4 73.4#
254 0.0 0.0 0.0



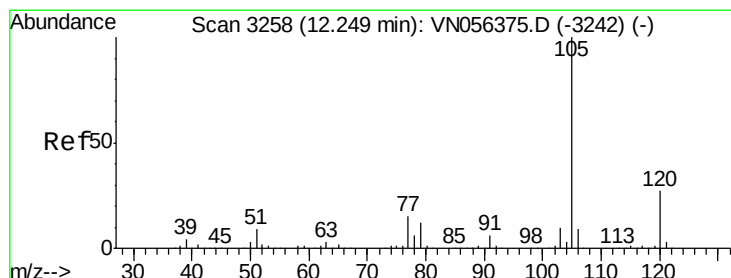
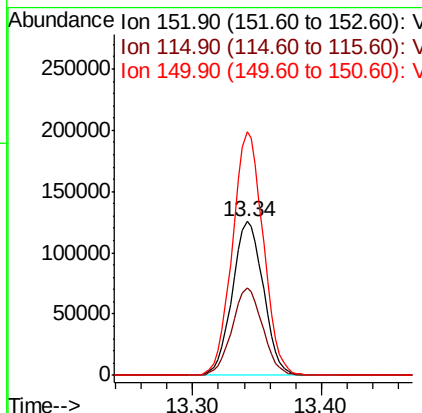
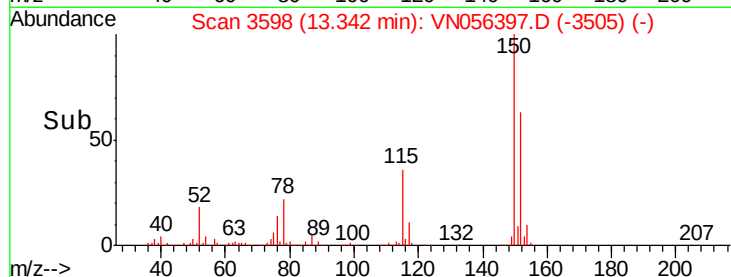
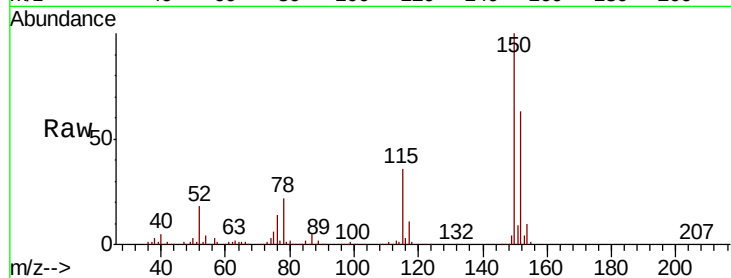


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-MUD

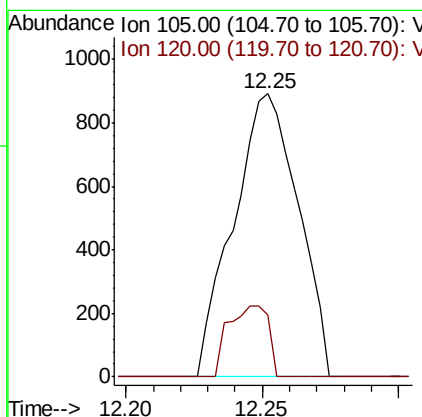
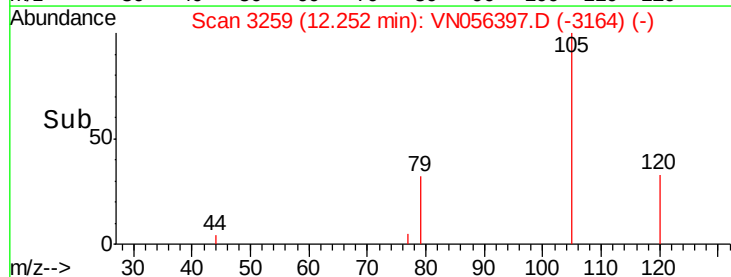
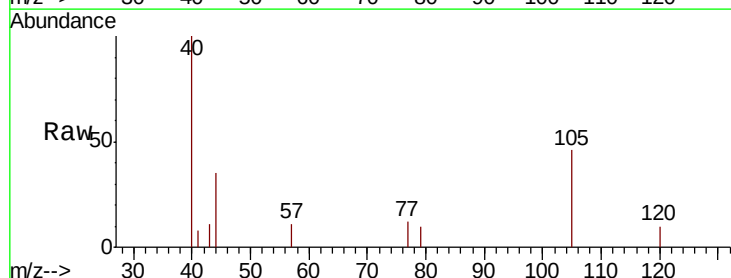
Tot Ion:152 Resp: 210114
Ion Ratio Lower Upper
152 100
115 55.9 28.1 84.4
150 156.6 0.0 348.4

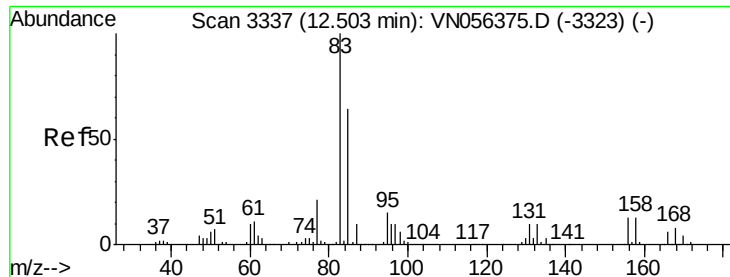


#73

Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Tgt Ion:105 Resp: 1471
Ion Ratio Lower Upper
105 100
120 15.4 13.4 40.2





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-MUD

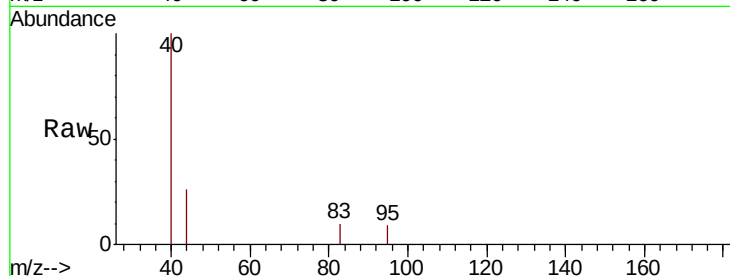
Tot Ion: 83 Resp: 136

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

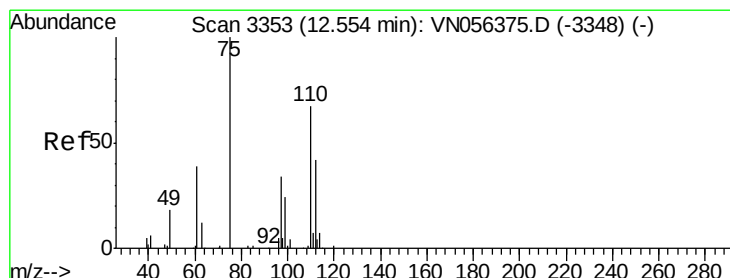
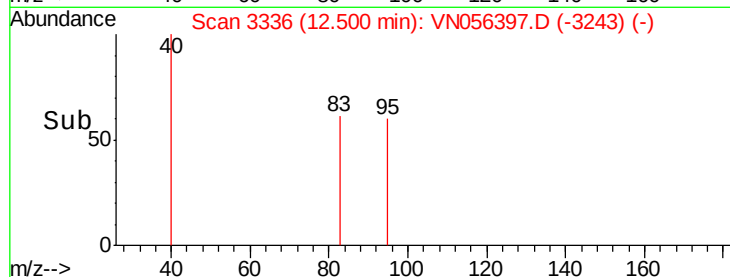
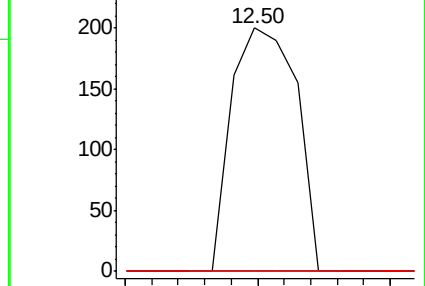
85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 29.008 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056397.D

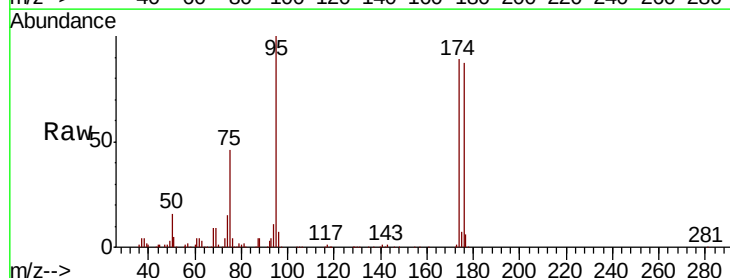
Acq: 20 Jun 2019 13:05

Tgt Ion: 75 Resp: 126379

Ion Ratio Lower Upper

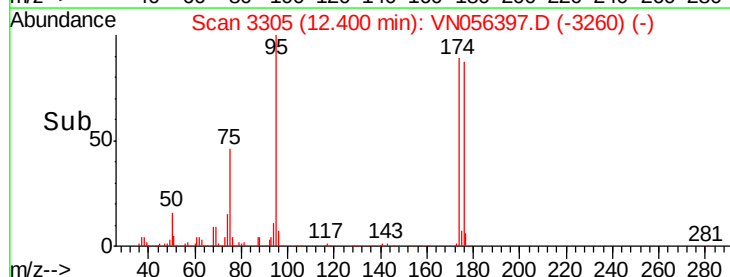
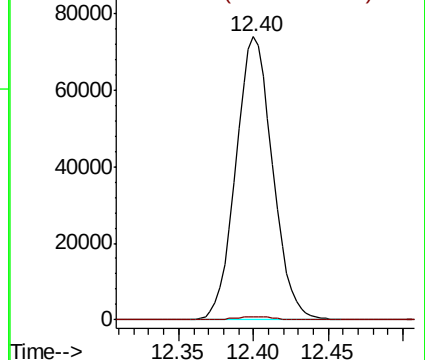
75 100

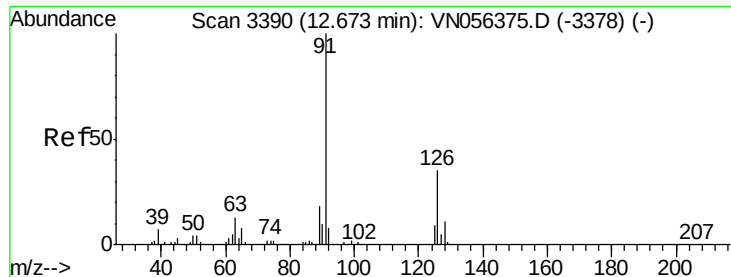
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

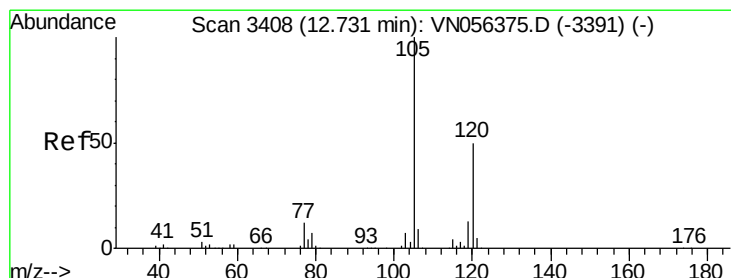
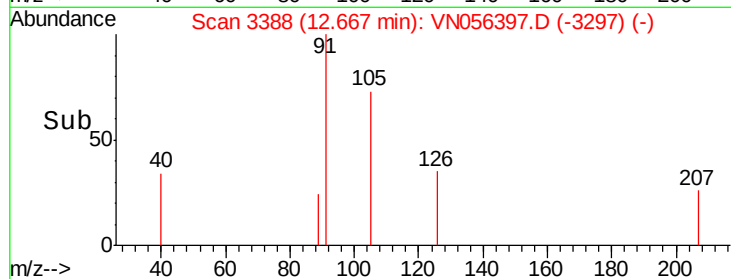
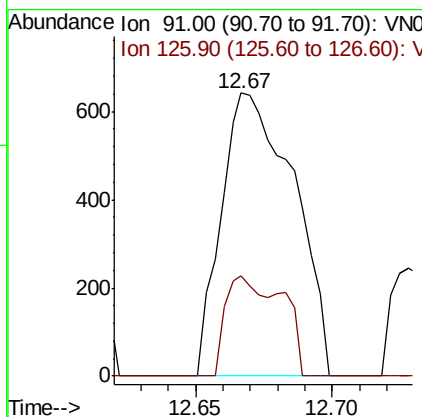
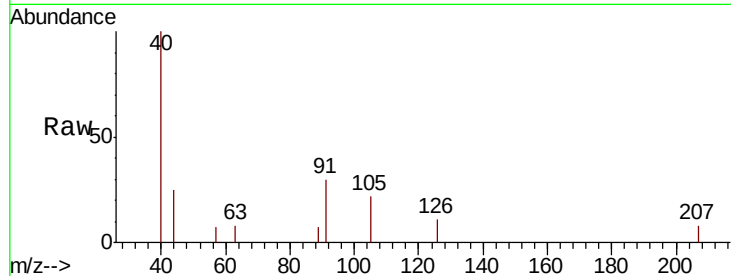




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.67 min Scan# 3388
 Delta R.T. -0.01 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

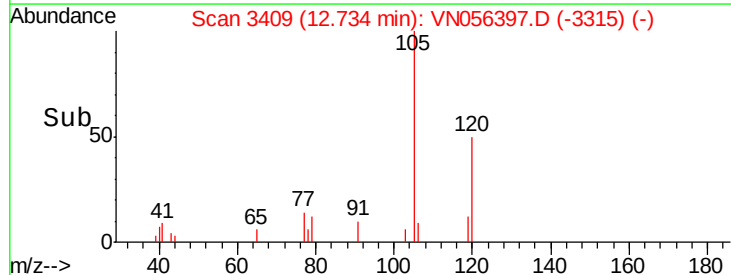
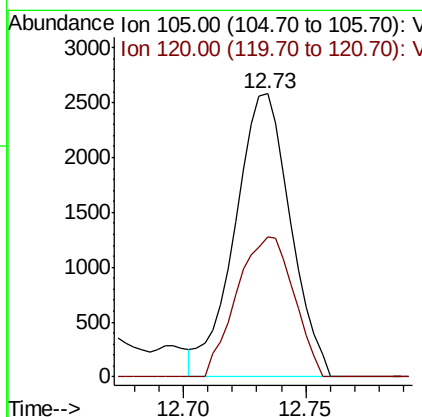
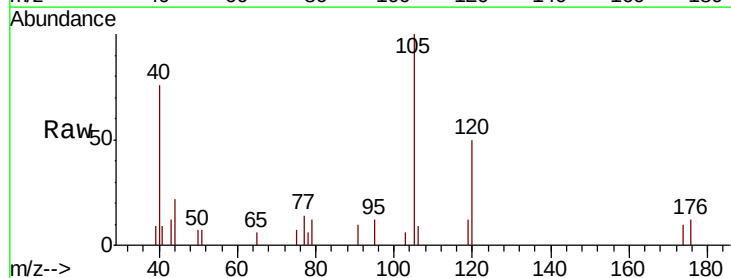
Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-MUD

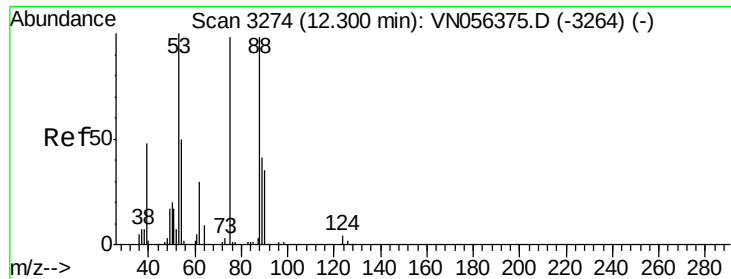
Tot Ion: 91 Resp: 1188
 Ion Ratio Lower Upper
 91 100
 126 27.6 17.6 52.8



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

Tgt Ion: 105 Resp: 4078
 Ion Ratio Lower Upper
 105 100
 120 50.7 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 103.097 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-MUD

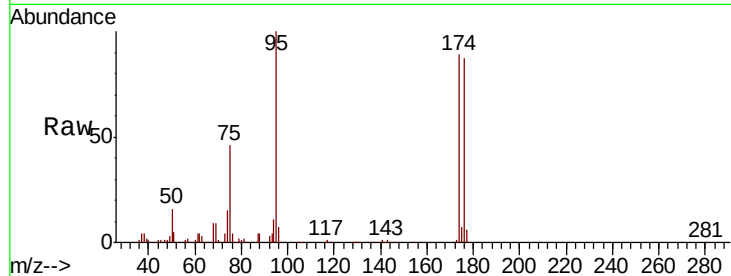
Tot Ion: 75 Resp: 126379

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

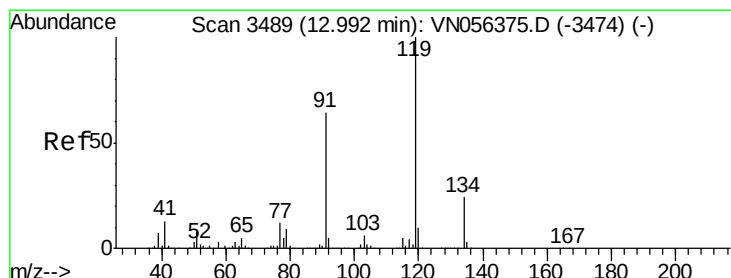
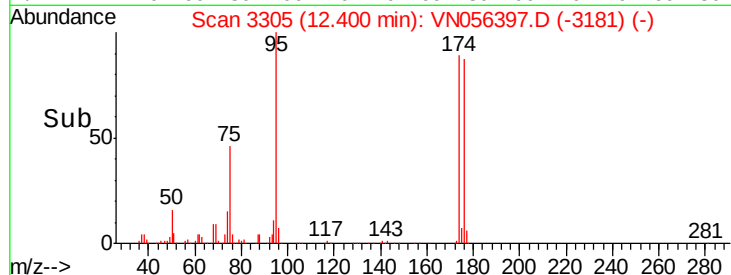
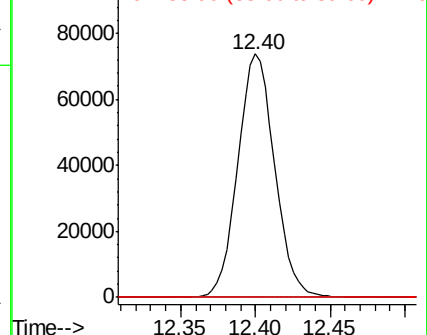
89 0.0 35.0 52.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056397.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN056397.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN056397.D (-3181) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

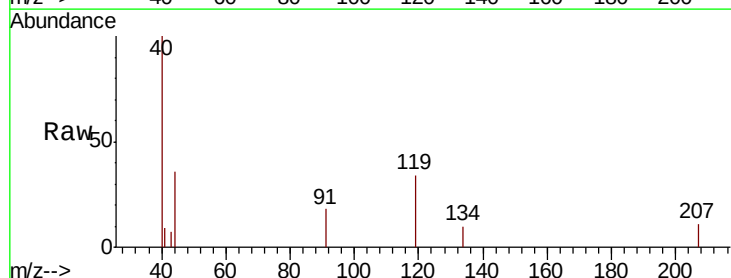
Tgt Ion: 119 Resp: 1044

Ion Ratio Lower Upper

119 100

91 62.4 31.6 94.7

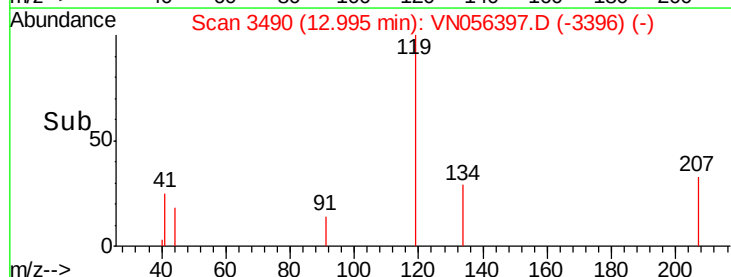
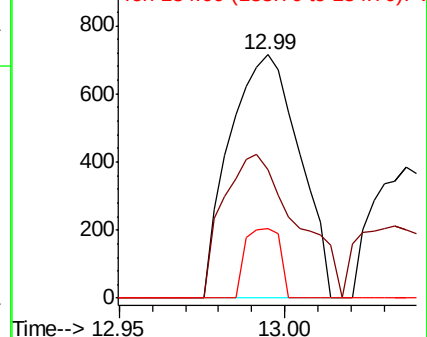
134 14.4 13.2 39.5

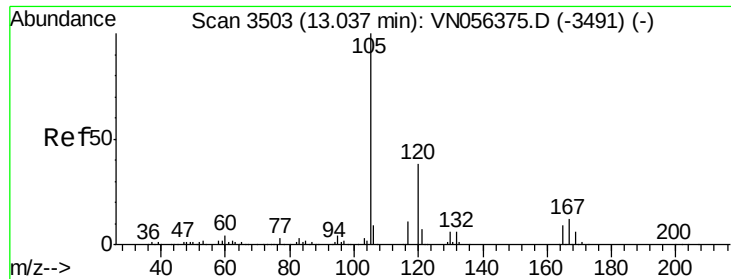


Abundance Ion 119.00 (118.70 to 119.70): VN056397.D (-3396) (-)

Ion 91.00 (90.70 to 91.70): VN056397.D (-3396) (-)

Ion 134.00 (133.70 to 134.70): VN056397.D (-3396) (-)





#84

1,2,4-Trimethylbenzene

Concen: 0.331 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

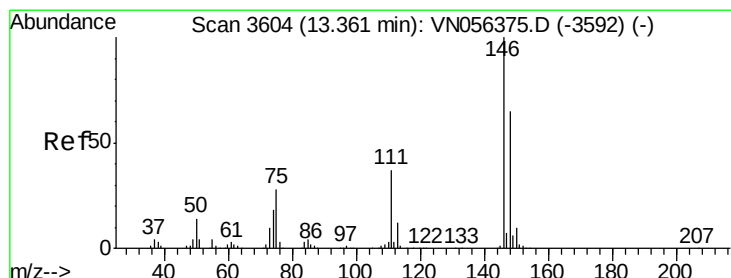
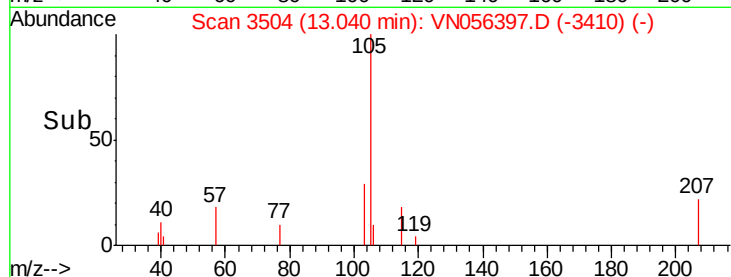
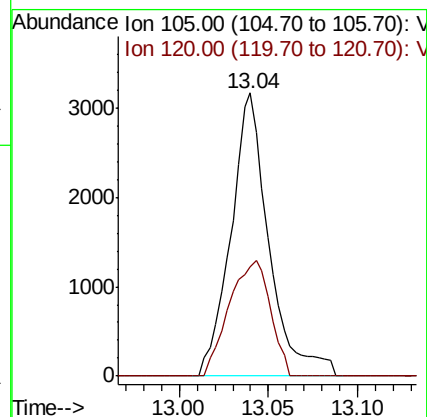
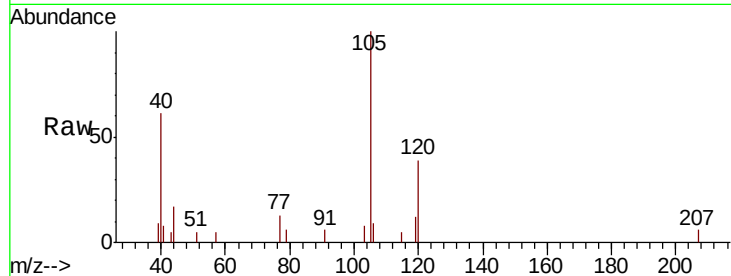
FRAC-TANK-MUD

Tot Ion:105 Resp: 4689

Ion Ratio Lower Upper

105 100

120 44.3 22.9 68.8



#88

1,4-Dichlorobenzene

Concen: 0.218 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

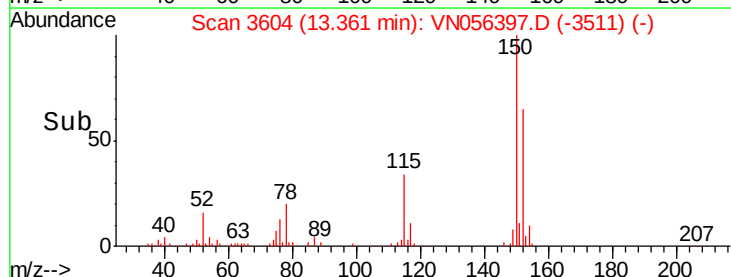
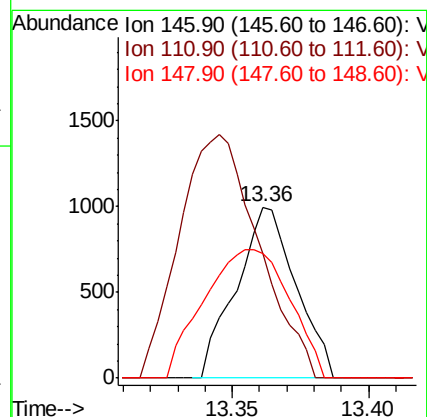
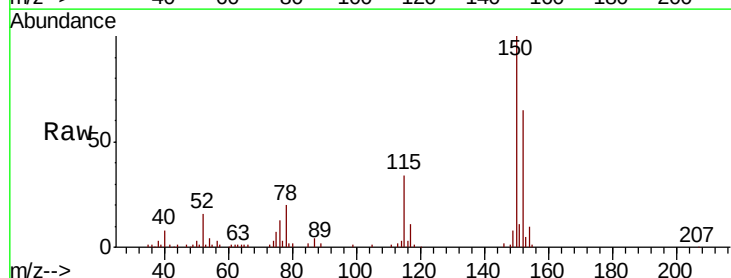
Tgt Ion:146 Resp: 1505

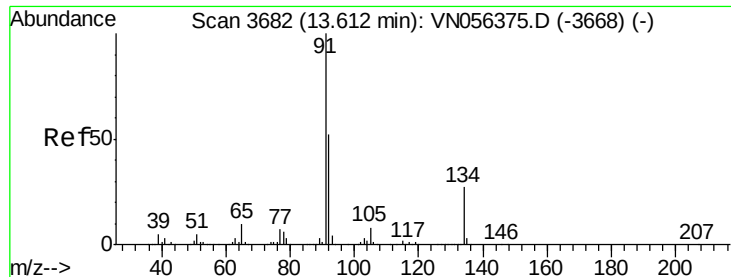
Ion Ratio Lower Upper

146 100

111 190.9 18.4 55.4#

148 108.2 32.4 97.0#

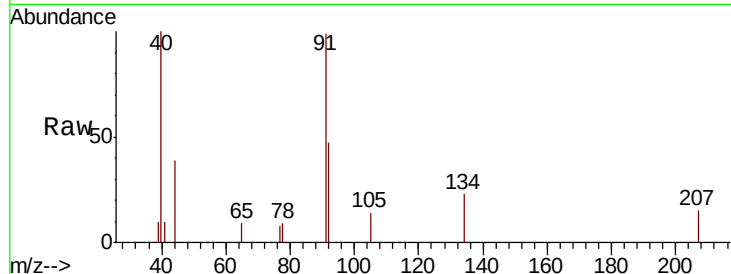




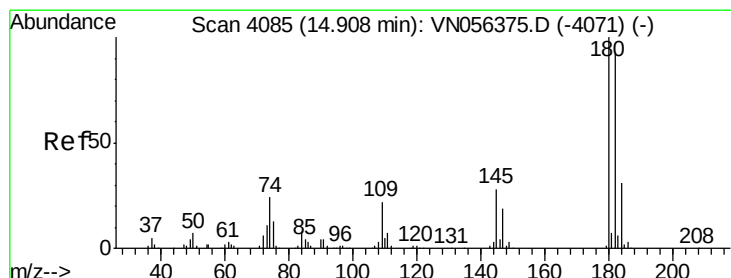
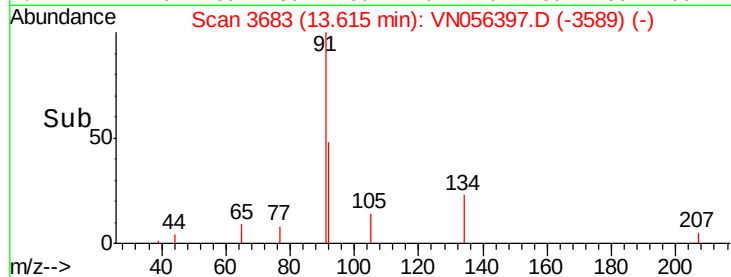
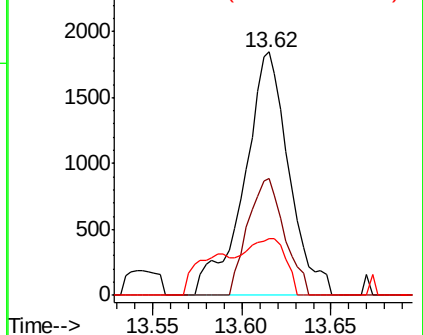
#89
n-Butylbenzene
Concen: 0.294 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-MUD

Tot Ion: 91 Resp: 3235
Ion Ratio Lower Upper
91 100
92 39.4 26.2 78.5
134 19.2 13.4 40.2

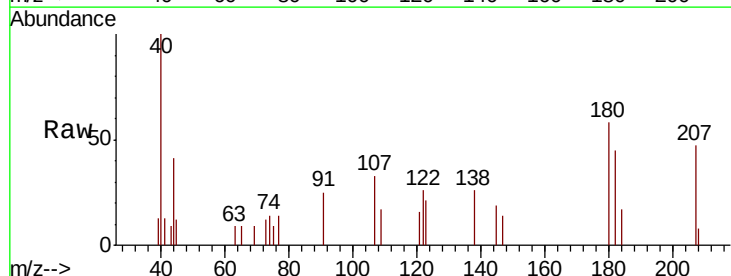


Abundance Ion 91.00 (90.70 to 91.70): VN056397.D (-3668) (-)
Ion 92.00 (91.70 to 92.70): VN056397.D (-3668) (-)
Ion 134.00 (133.70 to 134.70): VN056397.D (-3668) (-)

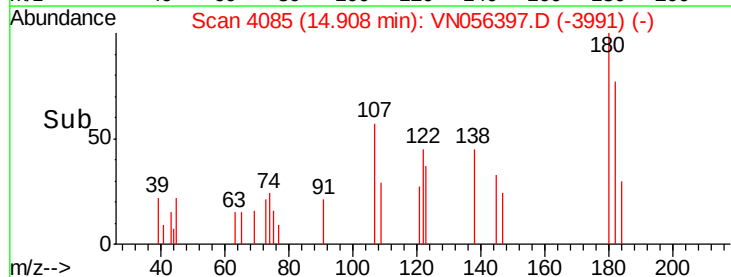
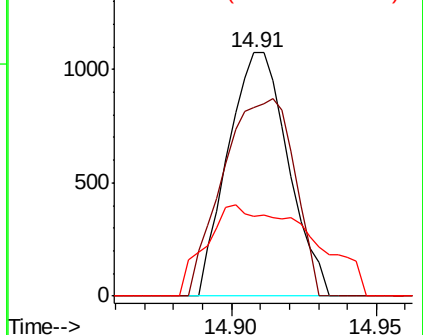


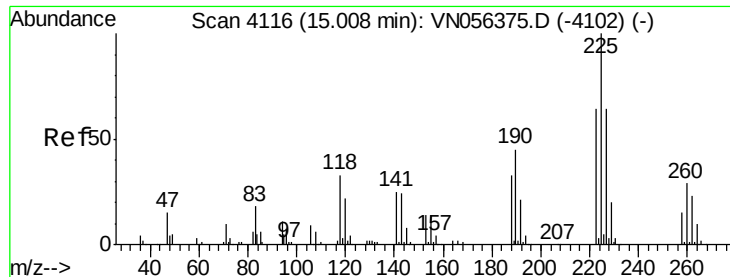
#93
1,2,4-Trichlorobenzene
Concen: 5.988 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN056397.D
Acq: 20 Jun 2019 13:05

Tgt Ion: 180 Resp: 1549
Ion Ratio Lower Upper
180 100
182 96.0 46.9 140.6
145 65.5 14.4 43.0#



Abundance Ion 179.80 (179.50 to 180.50): VN056397.D (-4071) (-)
Ion 181.80 (181.50 to 182.50): VN056397.D (-4071) (-)
Ion 144.80 (144.50 to 145.50): VN056397.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-MUD

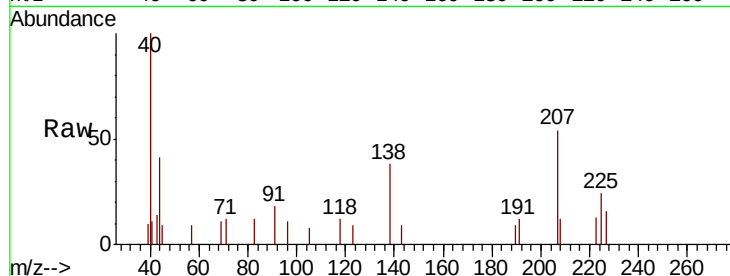
Tot Ion:225 Resp: 579

Ion Ratio Lower Upper

225 100

223 20.7 31.4 94.3#

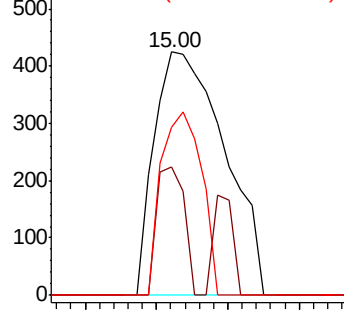
227 43.4 32.1 96.3



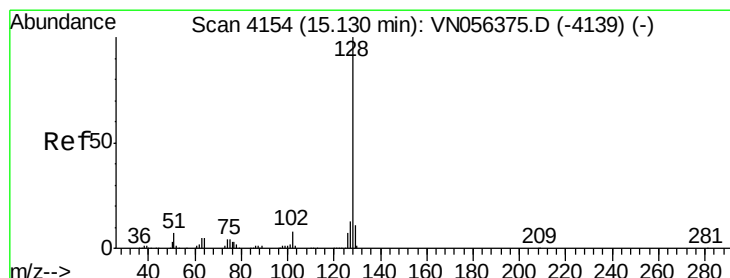
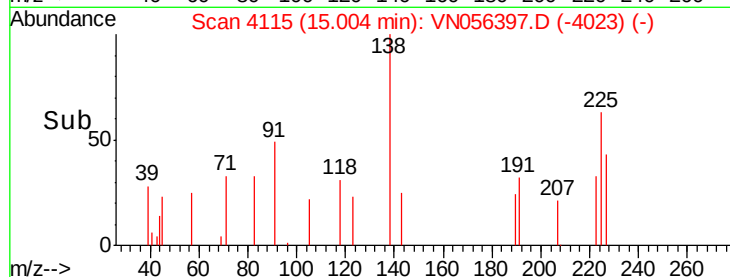
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 6.816 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056397.D

Acq: 20 Jun 2019 13:05

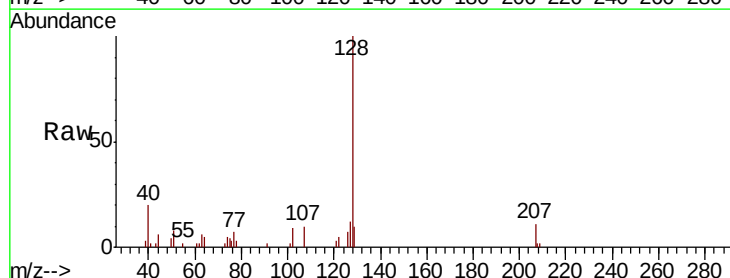
Tgt Ion:128 Resp: 16877

Ion Ratio Lower Upper

128 100

127 12.0 10.2 15.2

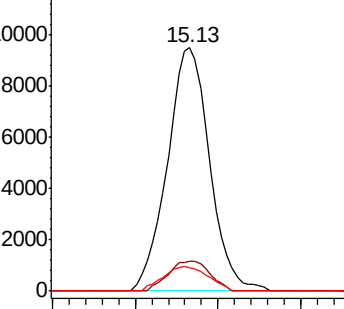
129 10.7 8.6 12.8



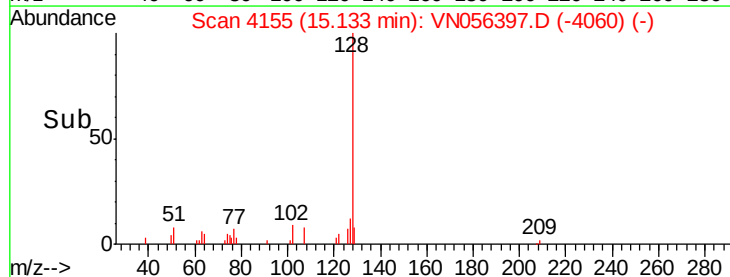
Abundance Ion 128.00 (127.70 to 128.70): V

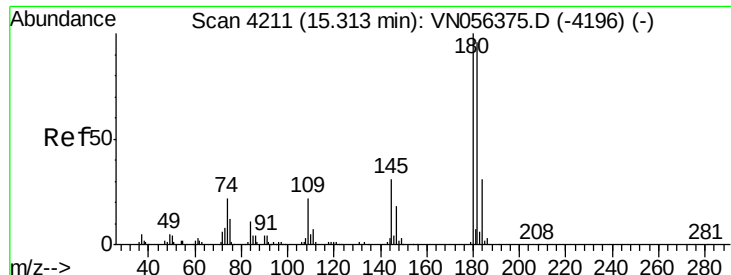
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 5.052 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN056397.D
 Acq: 20 Jun 2019 13:05

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-MUD

Tot Ion	Ratio	Lower	Upper
180	100		
182	81.8	48.3	144.8
145	50.6	15.4	46.1

